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ACCREDITATION INFORMATION

PROGRAM COMMITTEE

Lt. Col. Aaron E. Barrow, MD - Program Co-Chair

Maj Stuart J. Davidson, MD - Program Co-Chair

Col. R. Judd Robins, MD

LTC Jeanne Patzkowski, MD

CDR Christopher H. Renninger, MD

CDR Jennifer L. Smith, MD

LTC Daniel J. Song, MD

LTC David J. Tennent, MD

SOMOS MISSION STATEMENT

To provide a forum for the interchange of medical knowledge as it relates to the practice of orthopaedic surgery in the military.

TARGET AUDIENCE

The 67th Annual Meeting of the Society of Military Orthopaedic Surgeons has been developed primarily for orthopaedic and trauma surgeons.

PURPOSE

The purpose of the SOMOS Annual Meeting is to provide a comprehensive, militarily relevant educational forum that promotes excellence in orthopaedic care within the Department of Defense. The meeting facilitates the exchange of evidence-based advances in orthopaedic surgery, fosters innovation in the treatment of musculoskeletal injuries across the continuum of care, promotes surgeon leadership development, and supports the readiness of military orthopaedic surgeons to manage both combat and non-combat injuries. Through collaboration, education, and shared experience, this meeting seeks to enhance the quality and consistency of orthopaedic care delivered by military medical professionals in diverse operational settings.

OBJECTIVES

At the conclusion of the 2025 SOMOS Annual Meeting, participants will be able to:

1. **Apply** updated knowledge and techniques in orthopaedic subspecialties including trauma, sports medicine, foot and ankle, hand, spine, oncology, and pediatric orthopaedics, particularly as they relate to the unique demands of military populations.
2. **Analyze** current trends in the management of combat-related musculoskeletal injuries and assess their applicability to forward-deployed and resource-limited environments.
3. **Integrate** evidence-based outcomes and innovations, including surgical advancements and rehabilitation strategies, into their clinical practice to improve patient outcomes and operational readiness.

4. **Engage** in peer-to-peer knowledge exchange that promotes continuous learning and leadership development within the military orthopaedic community.
5. **Identify** emerging technologies and treatment modalities relevant to military orthopaedics and evaluate their potential impact on future care delivery.

These objectives will be achieved through a robust scientific program including podium presentations, instructional courses, symposia, case panels, poster sessions, and keynote lectures.

ACCREDITATION STATEMENT

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Academy of Orthopaedic Surgeons and the Society of Military Orthopaedic Surgeons. The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

The American Academy of Orthopaedic Surgeons designates this Society of Military Orthopaedic Surgeons 67th Annual Meeting, December 9 – 12, 2025 to be held in Vail, Colorado for an approximate maximum of 28.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The Scientific Program is 22.75 AMA PRA Category 1 Credits™

The E-Posters are 5.75 AMA PRA Category 1 Credits™

DISCLAIMER

The Society of Military Orthopaedic Surgeons (SOMOS) is a private not-for-profit organization that is not sponsored by any department or agency of the DoD or local state or federal government. Speakers and exhibitors at the 2023 Society of Military Orthopaedic Surgeons (SOMOS) 65th Annual Meeting represent and are solely responsible for their own presentations. Their presentation and displays do not represent concepts, policy or the official position of any department or agencies of the DoD or local or state government.

Presentations and displays at the 2023 Annual Meeting do not constitute endorsement, concurrence, validation or official position of SOMOS or any other department or agency.

SCIENTIFIC E-POSTER PRESENTATIONS

Scientific E-Posters are an important feature of the SOMOS Annual Meeting. E-Posters will be on video display along with their presenters December 9th – 12th during the Scientific Program.

Please note on the Scientific Program Schedule the designated times the poster presenters will be available for discussion.

SOMOS Scientific Program
December 8-12, 2025
The Hythe Hotel
Grand Ballrooms F-J
Vail, CO

Monday, December 8

7:00 am-4:00 pm **MAST Pre-Course Didactic and Lab – Shoulder** (*Berry Picker & Colorado Ballroom*)
**CME Credit not available*
(Invitation Only)

12:00 pm-5:00 pm **Meeting Registration** (*Grand Ballroom Foyer*)

12:00 pm-8:00 pm **Speaker Ready Room** (*Blue Sky*)

6:30 pm-9:00 pm **Welcome Dinner with Exhibitors** (*Grand Ballroom Salons A-E & Foyer*)

Tuesday, December 9

6:00 am-8:00 pm **Speaker Ready Room** (*Blue Sky*)

6:30 am-12:10 pm **Technical Exhibits, Coffee Breaks and Daily Drawing** (*Grand Ballroom Salons A-E & Foyer*)

6:30 am-12:10 pm **Meeting Registration** (*Grand Ballroom Foyer*)

Opening Ceremony

Moderators: Col R. Judd Robins, MD, *United States Air Force Academy*
Lt Col Aaron E. Barrow, MD, *Eglin Air Force Base*
Maj Stuart J. Davidson, MD, *US Air Force Academy*

7:00 am-7:10 am	Opening Ceremony
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7:10 am-7:20 am Report of SOMOS President
Col R. Judd Robins, MD, United States Air Force Academy

*CME Credit not available

Concurrent Symposium 1A – Upper Extremity Trauma

Moderator: MAJ John P. Scanaliato, MD, *William Beaumont Army Medical Center*

7:25 am-7:40 am Avoiding the Hellbow: Principles for ORIF of the Distal Humerus
Mark E. Morrey, MD, Mayo Clinic

7:40 am-7:55 am Proximal Humerus Fractures: How to Get the Best Results in 2025
Jonah Hebert-Davies, MD, University of California Irvine

Concurrent Symposium 1B – Adult Arthroplasty (*Colorado Ballroom Salon 2*)

Moderators: CDR Alanna B. Balboni, MD, *Naval Medical Center San Diego*
Lt Col Jason A. Beachler, MD, *Wright Patterson Air Force Base*

7:25 am-7:40 am Preventing and Managing DAA THA Intraoperative Complications
Eric Cohen, MD, Brown University

7:40 am-7:55 am Acetabular Revisions: From Routine to Ridiculous
Viktor E. Krebs, MD, Cleveland Clinic

Concurrent Session 1A – Upper Extremity

Moderators: Jonah Hebert-Davies, MD, *University of California Irvine*
Mark E. Morrey, MD, *Mayo Clinic*
MAJ John P. Scanaliato, MD, *William Beaumont Army Medical Center*

7:55 am-8:01 am 249 - ORIF and rTSA for Proximal Humerus Fractures in Young Patients
MAJ Michael Baird, MD, Brooke Army Medical Center

8:01 am-8:07 am 55 - Complete Soft Cast for Adult Distal Radius Fractures: Is It Enough?
Is it Safe?
Maj Matthew R. Cant, MBChB, Royal Infirmary, Edinburgh
**Presented by Major Abigail Bainbridge, MBChB, BSC (Hons)*

8:07 am-8:13 am 9 - Reoperation Risk and Patient Reported Outcomes after Glenoid
Fracture Fixation
CAPT Patrick J. McGlone, MD, Walter Reed National Military Medical Center

8:13 am-8:19 am 76 - Humeral Shaft Fracture Physical Performance Outcomes Comparing
Surgery and Bracing
LT Kieran S.M. Wolf, MD, Naval Medical Center San Diego

8:19 am-8:25 am Discussion

8:25 am-8:31 am 358 - Operative vs Nonoperative Management for Closed Humeral Shaft
Fractures in an Active-Duty Military Population
CPT Matthew M. McDonough, MD, Womack Army Medical Center

8:31 am-8:37 am 297 - Reliability of RUSHU Scores for Ballistic Humeral Shaft Fractures
Jennifer Eurich, MD, University of Chicago Medical Center

8:37 am-8:43 am 372 - Lateral Radiograph Technique May Affect Humeral Shaft Fracture
Treatment Recommendation
Douglas Zhang, BA, University of Chicago Pritzker School of Medicine

8:43 am-8:49 am 103 - Impact of Operative Timing for Proximal Humerus Fracture
Dislocations on Development of Neurologic Injury and Postoperative
Outcomes
Alex J. Demers, MD, University of Iowa Department of Orthopedics and Rehabilitation

**Presented by LTC Joseph W. Galvin, DO*

8:49 am-8:55 am Discussion

Concurrent Session 1B – Adult Arthroplasty (*Colorado Ballroom Salon 2*)

Moderators: Eric Cohen, MD, *Brown University*
 Viktor E. Krebs, MD, *Cleveland Clinic*
 LtCol Fortune Egbulefu, MD, *Nellis Air Force Base*
 LCDR Chihua Lee, MD, *Naval Medical Center San Diego*

- 7:55 am-8:01 am 198 - Comparative Outcomes of GLP-1 Agonist Therapy and Bariatric Surgery Prior to Total Hip Arthroplasty
Kara McConaghy, University of Virginia Health System
- 8:01 am-8:07 am 231 - Correlation between Tibial Cortical Thickness and Volumetric Bone Mineral Density
Lt Col Matthew W. Booth, MD, MS, Hospital for Special Surgery
- 8:07 am-8:13 am 112 - Self-Directed vs. Outpatient Therapy after Total Knee Arthroplasty
LT Robert G. Patterson, DO, Naval Medical Center Portsmouth
- 8:13 am-8:19 am 195 - Compliance with Guidelines for Periprosthetic Joint Infection in Arthroplasty Strategies
Lt Col Matthew W. Booth, MD, MS, Hospital for Special Surgery
- 8:19 am-8:25 am Discussion
- 8:25 am-8:31 am 199 - Return to Duty following Total Joint Arthroplasty in Active-Duty Service Members
Lauren Bartling, MD, Womack Army Medical Center/Cape Fear Valley Medical Center
- 8:31 am-8:37 am 210 - Does Race Affect Utilization of Unicompartamental vs. Total Knee Arthroplasty? Analysis of the Military Health System
CPT Sarah Rabin, MD, MS, Walter Reed National Military Medical Center
- 8:37 am-8:43 am 290 - Preoperative Malnutrition May Predict Periprosthetic Fractures in Total Knee Arthroplasty
Andrew Ni, MD, University of Texas Health Science Center San Antonio
- 8:43 am-8:49 am 366 - Each Anatomic Distal Femoral Angle Represents a Wide Range of Mechanical Angles
2nd LT Sydney R. Flanagan, BS, Loyola University Medical Center
- 8:49 am-8:55 am Discussion
- 8:55 am-9:15 am *Break with Exhibitors (Grand Ballroom Salons A-E & Foyer)*

Concurrent Panel Discussion 1A – Upper Extremity Trauma

Moderator: MAJ John P. Scanaliato, MD, *William Beaumont Army Medical Center*

9:15 am-9:45 am Panel Discussion

Panel: *Jonah Hebert-Davies, MD, University of California Irvine*
Mark E. Morrey, MD, Mayo Clinic

Concurrent Panel Discussion 1B – Adult Arthroplasty (Colorado Ballroom Salon 2)

Moderator: LCDR Alanna B. Balboni, MD, *Naval Medical Center San Diego*
Lt Col Jason A. Beachler, MD, *Wright Patterson Air Force Base*

9:15 am-9:45 am Panel Discussion

Panel: *Eric Cohen, MD, Brown University*
Viktor E. Krebs, MD, Cleveland Clinic

Symposium 2 - Sports Shoulder and Elbow

Moderator: LCDR Andrew Bernhardson, MD, *VA Medical Center Chicago*

9:50 am-10:05 am Arthroscopic Treatment of Degenerative Shoulder Disease
Peter J. Millett, MD, MSc, Steadman Clinic

10:05 am-10:20 am Rotator Cuff Repair
Felix H. “Buddy” Savoie III, MD, Tulane University

10:20 am-10:40 am Break with Exhibitors (Grand Ballroom Salons A-E & Foyer)

General Session 2 – Sports Shoulder and Elbow

Moderators: Peter J. Millett, MD, MSc, *Steadman Clinic*
Felix H. “Buddy” Savoie III, MD, *Tulane University*
LCDR Andrew Bernhardson, MD, *VA Medical Center Chicago*

10:40 am-10:46 am 35 - Anterior Glenoid Labral Tear Complexity does not Correlate with
Number of Dislocation Events nor Time from Injury to Surgery in Patients
Receiving Arthroscopic Repair
Justin Ernat, MD, University of Utah Health

10:46 am-10:52 am 87 - Arthroscopic vs. Open Anterior Glenoid Reconstruction in the
Military Population
CPT Colby Brunette, MD, Madigan Army Medical Center

10:52 am-10:58 am 71 - The Biomechanical Impact of Radial Head Plug Harvests for OATS
LT Hannah Gibbs, MD, Walter Reed National Military Medical Center
**Presented by LT Anthony M. Smyth, MD*

10:58 am-11:04 am 328 - Association between Baseline PROMS and Incident Glenohumeral
Joint Instability
Kenneth L. Cameron, PhD, MPH, Keller Army Hospital

11:04 am-11:10 am Discussion

- 11:10 am-11:16 am 201 - Pain and Functional Outcomes after Remplissage in Active-Duty Service Members: Mid- to Long-Term Outcomes
CPT Brandon H. Chung, DO, William Beaumont Army Medical Center
- 11:16 am-11:22 am 36 - Variations in Labral Tear Size in Patients Treated Arthroscopically for Posterior Shoulder Instability Does Not Change Outcomes and is Not Predicted by Instability History
Justin J. Ernat, MD, University of Utah Health
- 11:22 am-11:28 am 187 - Outcomes after Posterior Distal Tibia Allograft Reconstruction for Glenohumeral Instability
LCDR Scott Feeley, MD, Walter Reed National Military Medical Center
- 11:28 am-11:34 am 325 - Inlay vs. Onlay Fixation of Distal Biceps Tendon Repair
Steven Leary, MD, University of Iowa
- 11:34 am-11:40 am Discussion

Panel Discussion 2 – Sports Shoulder and Elbow

Moderator: LTC Daniel J. Song, MD, *Walter Reed National Military Medical Center*

- 11:40 am- 12:10 pm Panel Discussion
Panel: *John D. Kelly IV, MD, University of Pennsylvania*
Peter J. Millett, MD, MSc, Steadman Clinic
Felix H. “Buddy” Savoie III, MD, Tulane University
- 12:10 pm -1:10 pm **Focused Lunch Presentations**
Arthrex (Colorado Ballroom Salon 2)
Pacira Biosciences, Inc. (Colorado Ballroom Salon 1)
Stryker (Mountain View)
**CME Credit not available*
- 1:15 pm-3:00 pm **Scientific E-Poster Session (Sun Down)**
(Presenters will be available to answer questions)
- 3:00 pm-5:30 pm **Meeting Registration (Grand Ballroom Foyer)**

Rapid Fire Sessions 1A – Trauma (Mountain View)

Moderators: LT Jonathan C. Savakus, MD, *Camp Pendleton*
MAJ John P. Scanaliato, MD, *William Beaumont Army Medical Center*

- 3:00 pm-3:04 pm 6 - Early Weight Bearing is Associated with Improved Gait Metrics within Six Months of Fracture Fixation: An Analysis of iPhone Health Data
CAPT Patrick J. McGlone, MD, Walter Reed National Military Medical Center
- 3:04 pm-3:08 pm 185 - Balancing Risk and Benefit: Evaluating Preoperative VTE Prophylaxis in Hip Fractures
Capt Andrew D. Maeso, DO, Grandview - Kettering Health Orthopedic Surgery Residency Program

- 3:08 pm-3:12 pm 138 - Outcomes of Periarticular Distal Femur Fractures Treated with Local Antibiotics
Alexander B. White, MD, Atrium Health Carolinas Medical Center
**Presented by Rachel Seymour, PhD*
- 3:12 pm-3:16 pm 27 - Outcomes in Patients with Isolated Hip Fractures by Discharge Modality
Andrew Wise, MD, University of Central Florida
- 3:16 pm-3:20 pm 136 - Staged Fixation Associated with Higher Complications in Proximal Tibia Fractures
Sarah Stroud, MD, Atrium Health Musculoskeletal Institute
**Presented by George D. Graham, MD*
- 3:20 pm-3:24 pm 140 - ORIF vs. Primary Subtalar Arthrodesis for Displaced Intra-Articular Calcaneal Fractures
Ainsley Bloomer, MD, Atrium Health
**Presented by Rachel Seymour, PhD*
- 3:24 pm-3:30 pm Discussion
- 3:30 pm-3:34 pm 336 - Hounsfield-Unit Bone Mineral Density Loss after Limb Salvage for High Energy Lower Extremity Trauma
CPT Sarah Rabin, MD, MS, Walter Reed National Military Medical Center
- 3:34 pm-3:38 pm 141 - Complications following Nail vs. Plate in Bicondylar Tibial Plateau Fractures
Madeline Rieker, MD, Carolinas Medical Center
- 3:38 pm-3:42 pm 142 - Implications of Index Implant at Distal Femur Non-Union Surgery
George D. Graham, MD, Atrium Health Carolinas Medical Center
- 3:42 pm-3:46 pm 299 - Reliability of mRUST Scores in Ballistic Lower Extremity Trauma
Jennifer Eurich, MD, University of Chicago Medical Center
- 3:46 pm-3:50 pm 11 - Regional Blocks Lower Rates of Intubation in Femur Fracture Patients
CAPT Patrick J. McGlone, MD, Walter Reed National Military Medical Center
- 3:50 pm-3:54 pm 97 - Novel Framework Predicts Femur Fracture Outcomes from Stress and Reserve
Sumin Jeong, BS, David Geffen School of Medicine at UCLA
- 3:54 pm-4:00 pm Discussion

Rapid Fire Sessions 1B – Adult Arthroplasty (Berry Picker)

Moderators: MAJ Sean E. Slaven, MD, *Walter Reed National Military Medical Center*

- 3:00 pm-3:04 pm 287 - Metformin to Treat Osteoarthritis in the Knee: A Systematic Review and Meta-Analysis
Capt Matthew H. Naeem, MBBS, Frimley Park Hospital
**Presented by Major Henry A. Claireaux, MB, ChB*
- 3:04 pm-3:08 pm 204 - Total Knee Arthroplasty and Restless Legs Syndrome: A Propensity-Matched Cohort CPT *Alexis B. Sandler, MD, William Beaumont Army Medical Center*
- 3:08 pm-3:12 pm 289 - Attention-Deficit/Hyperactivity Disorder May Increase Risk of Prosthetic Hip Dislocation
Andrew Ni, MD, University of Texas Health Science Center San Antonio
- 3:12 pm-3:16 pm 292 - The Impact of Attention-Deficit/Hyperactivity Disorder on Total Knee Arthroplasty Outcomes
Andrew Ni, MD, University of Texas Health Science Center San Antonio
- 3:16 pm-3:20 pm 25 - Sleep Quality and Recovery in Total Knee Arthroplasty: A Systematic Review
CPT Joshua Hansen MD William Beaumont Army Medical Center
- 3:20 pm-3:32 pm Discussion
- 3:32 pm-3:36 pm 253 - American Joint Replacement Registry Participation within the Military Health System
LT Christian J. Coulson, MD, Naval Medical Center Portsmouth
- 3:36 pm-3:40 pm 2 - Time-To-Total Hip Arthroplasty in the Military Health System
2LT Brandon Hillery, BA, Uniformed Services University
- 3:40 pm-3:44 pm 203 - Restless Legs Syndrome Associated with Dislocation after Total Hip Arthroplasty
CPT Alexis B. Sandler, MD, William Beaumont Army Medical Center
- 3:44 pm-3:48 pm 63 - Sleep Quality, PROMs, and Kinematic Outcomes after TKA
CPT William McClelland, MD, William Beaumont Army Medical Center
- 3:48 pm-4:00 pm Discussion

Rapid Fire Sessions 1C – War Surgery (Colorado Ballroom Salon 1)

Moderators: CDR Christopher H. Renninger, MD, *Walter Reed National Military Medical Center*
MAJ Zachary Roward, MD, *Brooke Army Medical Center*

- 3:00 pm-3:04 pm 159 - Treatment Strategy and Complications of Tourniquet Syndrome
Mykyta Tomilin, MD, Dnipropetrovsk Regional Clinical Hospital named after I.I. Mechnykov

3:04 pm-3:08 pm	236 - Insufficient Case Volume for Board Eligibility at Multiple OCONUS Hospitals <i>CPT Kenneth J. Fellows, MD, Brooke Army Medical Center</i>
3:08 pm-3:12 pm	65 - Bone Mineral Density after Space Flight: Considerations for Mission Readiness <i>Benjamin Fiedler, MD, Baylor College of Medicine</i>
3:12 pm-3:16 pm	157 - 3-D Implants in the Treatment of Critical Humeral Defects Resulting from Combat Trauma: Long-Term Effects <i>Lieutenant Colonel Iurii Lazarenko, PhD, Military Medical Center of Central Region</i>
3:16 pm-3:20 pm	196 - Quality and Complications of Primary External Fixation in Combat Limb Injuries from the Russo-Ukrainian War <i>Col Dmytro Los, MD, Royal Centre for Defence Medicine</i>
3:20 pm-3:24 pm	312 - Military-Civilian Partnerships Augment Subspecialty-Specific Case Volume amongst Orthopaedic Traumatologists <i>LT Nicholas M. Panarello, MD, Walter Reed National Military Medical Center</i>
3:24 pm-3:30 pm	Discussion
3:30 pm-3:34 pm	360 - Increases in Musculoskeletal Diagnosis Rates Corresponding with the Transition to the Army Combat Fitness Test <i>CPT Elizabeth Rich, MD, MPH, Walter Reed National Military Medical Center</i> <i>*Presented by CPT Ian P Marshall, MD</i>
3:34 pm-3:38 pm	58 - Amputation Patient Population in Iraq, Afghanistan, and Syria: Epidemiology and Future Directions of Care on the Battlefield <i>CPT Alexandria Murphy, MD, MS, Madigan Army Medical Center</i>
3:38 pm-3:42 pm	(Recorded) 320 - VDMT Technique in Transtibial Amputations: Preventing Symptomatic Neuromas and Reduce Postoperative Pain <i>Major Oleh Smyk, MS, Military Medical Clinical Treatment and Rehabilitation Center, Irpin, Ukraine</i>
3:42 pm-3:46 pm	114 - Infectious Threats in Ukrainian Combat Wounds: A Narrative Review <i>2LT Grant J Guzzo, BS, Duquesne University College of Osteopathic Medicine</i>
3:46 pm-3:50 pm	129 - Embedded Unexploded Ordnance Encountered during Combat Casualty Care: A Review of Clinical Management for UK Deployed Service Personnel <i>Major Abigail Bainbridge MBChB, BSC (Hons), Defence Medical Deanary</i>

3:50 pm-3:54 pm 247 - Bone Mineral Density Measures: Are Hounsfield Units or T-Scores a Better Predictor of Outcomes after OI Surgery?
CPT Sarah Rabin, MD, MS, Walter Reed National Military Medical Center

3:54 pm-4:00 pm Discussion

Rapid Fire Sessions 1D – Sports Shoulder (*Colorado Ballroom Salon 2*)

Moderators: MAJ Michael Baird, MD, *San Antonio Military Medical Center*
 Maj Andrew Haus, MD, *Nellis Air Force Base*

3:00 pm-3:04 pm 84 - Pre-Operative Cervical Radiculopathy Portends Worse Outcomes Following Total Shoulder Arthroplasty in a Rural Center
Matthew W. Parry, MD, MS, Geisinger

3:04 pm-3:08 pm 332 - Natural History of Posterior Shoulder Dislocations in the Military Health System
LT Hannah Gibbs, MD, Walter Reed National Military Medical Center
**Presented by LT Aidan McQuade, MD*

3:08 pm-3:12 pm 85 - Pre-Operative Physical Examination Alone is Noninferior to MRI when Considering Anatomic Total Shoulder Arthroplasty
Matthew W. Parry, MD, MS, Geisinger

3:12 pm-3:16 pm 88 - Anterior Glenoid Reconstruction vs. Latarjet for Instability with Anterior Glenoid Bone Loss
CPT Haley Johnson, MD, MS, Madigan Army Medical Center

3:16 pm-3:20 pm 269 - Glenohumeral Platelet-Rich Plasma Injections in the Sports Medicine Clinic
Col. R. Judd Robins, MD, United States Air Force Academy

3:20 pm-3:24 pm 329 - Morphological Characteristics following Traumatic Posterior Shoulder Dislocations in High-Risk Populations
LT Hannah Gibbs, MD, Walter Reed National Military Medical Center
**Presented by CPT Sarah Hall Kiriluk, MD*

3:24 pm-3:30 pm Discussion

3:30 pm-3:34 pm 334 - Association between Baseline Demographics and Glenohumeral Joint Instability Injury
Michael Aderman, MS, Keller Army Community Hospital

3:34 pm-3:38 pm 364 - Cost Comparison of Shoulder Instability Treatment Pathways for Recurrent Shoulder Instability Using Patient-Level Pathway Modeling Decision Tree Analysis
Capt Patrick J. Tansey, MD, University of Texas Medical Branch

3:38 pm-3:42 pm 385 - Suture Retensioning and Posteroinferior Anchor Significantly Improves Bankart Repair Biomechanics

Tyler Perleberg, BS, Steadman Philippon Research Institute

- 3:42 pm-3:46 pm 99 - Outcomes of Arthroscopic Bankart Repair with and without Biceps Tenodesis in a Military Population
Seth Shoap, MD, Penn State Health
- 3:46 pm-3:50 pm 200 - Establishing Patient-Reported Outcome Measure Thresholds following Acromioclavicular Joint Reconstruction
Christopher G. Bacak, MD, William Beaumont Army Medical Center
- 3:50 pm-3:54 pm 207 - Mid-Term Outcomes of Concomitant Arthroscopic Rotator Cuff Repair and Microfracture of Humeral Head Focal, Full-Thickness Cartilage Lesions
CPT Annette Yoon, MD, William Beaumont Army Medical Center
- 3:54 pm-4:00 pm Discussion

Rapid Fire Sessions 1E – Basic Science (*Sun Down*)

Moderator: LTC Gabriel J. Pavey, MD, *Madigan Army Medical Center*

- 3:00 pm-3:04 pm 108 - Six-Month Effectiveness of Sustained Acoustic Medicine for Knee Osteoarthritis
Stephanie Petterson, PhD, Orthopaedic Foundation
- 3:04 pm-3:08 pm 248 - Can We Validate the Musculoskeletal Infection Society Criteria in Patients Suspected of Infection after Transfemoral Osseointegration Surgery?
CPT Sarah Rabin, MD, MS, Walter Reed National Military Medical Center
- 3:08 pm-3:12 pm 46 - Anti-Obesity Medications for Obesity-Related Osteoarthritis: A Systematic Review
Capt Tim G. Bage, BMBS, BMedSc, DMCC, PGCert, MRCS, University of Oxford
**Presented by Major Henry A. Claireaux, MB, ChB*
- 3:12 pm-3:16 pm 202 - Benign Intra-Articular Soft Tissue Tumors Mimicking Hip Septic Arthritis
CPT Alexis B. Sandler, MD, William Beaumont Army Medical Center
- 3:16 pm-3:20 pm 326 - Health Behavior Modification and Symptomology for Post-Traumatic Osteoarthritis Knee Injury
Kenneth L. Cameron, PhD, MPH, Keller Army Hospital
- 3:20 pm-3:24 pm 240 - Impact of Long COVID on Bone Health in U.S. Veterans
ENS Zachary L. Morcos, BS, Nova Southeastern University Dr. Kiran C. Patel College of Osteopathic Medicine
- 3:24 pm-3:30 pm Discussion

- 3:30 pm-3:34 pm 252 - Off-Label Use of Sermorelin: A Review of Potential Therapeutic Benefits in Orthopedics
CPT Usama A. Aljameey, DO, Walter Reed National Military Medical Center
- 3:34 pm-3:38 pm 172 - Inflammatory Arthritis Mimicking Septic Arthritis After Checkpoint Inhibitor Therapy
CPT Anson G. Bautista, MD, Dwight D. Eisenhower Army Medical Center
- 3:38 pm-3:42 pm 110 - Sterile Smartphone Mount for Surgery: Low-Cost, Open-Source Design
LT Robert C. Weishar, MD, Naval Medical Center Portsmouth
- 3:42 pm-3:46 pm 216 - Safety of Celecoxib in Postoperative Patients with Documented Sulfonamide Allergies
CPT Josiah Snowden, MD, Brooke Army Medical Center
- 3:46 pm-3:50 pm 166 - Patient Retention of Explanted Orthopedic Hardware: A Comprehensive Review
Micah Ngatuvai, MD, MBA, Texas Tech Health Sciences Center / William Beaumont Army Medical Center
- 3:50 pm-3:54 pm 100 - Modeling Cutibacterium Acnes within PJI
2nd LT Sydney R. Flanagan, BS, Loyola University Medical Center
- 3:54 pm-4:00 pm Discussion
- 4:00 pm-4:15 pm Refreshment Break (Grand Ballroom Foyer)

Special Session 1 - War Trauma/Deployment Orthopaedics

Moderator: MAJ Zachary Roward, MD, *Brooke Army Medical Center*
CDR Christopher Smith, MD, MBA, *Naval Medical Center Portsmouth*

- 4:15 pm -4:21 pm 208 - Stopping the Second Strike: Infection Control Saves Limbs in War
Vasyl Rokyta, First Lviv Territorial Medical Union
- 4:21 pm -4:27 pm 32 - Breaking Point: Musculoskeletal Combat Injuries 2001-2023
COL Jerome M Benavides, MD, MBA, MSS, Madigan Army Medical Center
- 4:27 pm -4:33 pm 158 - War Time Amputations
Mykyta Tomilin MD, Dnipropetrovsk Regional Clinical Hospital
- 4:33 pm -4:48 pm Ballistic War Injuries
Jowan Penn-Barwell, MBChB, MSc, PhD, FRCS (Tr & Orth), Institute of Naval Medicine
- 4:48 pm-5:03 pm Lessons from the Current Battlefield
Samer Attar, MD, Northwestern University

- 5:03 pm-5:18 pm Deployment Lessons Learned from Past War
Jean-Claude D'Alleyrand, MD, University of Pennsylvania
- 5:18 pm- 5:30 pm Panel Discussion: Preparing for Deployment/Current Combat Challenges
Panel: *Samer Attar, MD, Northwestern University*
Jean-Claude D'Alleyrand, MD, University of Pennsylvania
Jowan Penn-Barwell, MBChB, MSc, PhD, FRCS (Tr & Orth), Institute of Naval Medicine
- 5:30 pm- 6:30 pm **LTC Jamie Dianne Bulken-Hoover Memorial Mentoring Reception**
(Mountain View)
- 6:30 pm-9:00 pm **Commander's Cup Event – Curling** *(Meet at the Ice Rink, Arrabelle at Vail Square)*

Wednesday, December 10

- 6:00 am-8:00 pm **Speaker Ready Room** *(Blue Sky)*
- 6:30 am-12:00 pm **Technical Exhibits, Coffee Breaks and Daily Drawing** *(Grand Ballroom Salons A-E & Foyer)*
- 6:30 am-12:00 pm **Meeting Registration** *(Grand Ballroom Foyer)*

Concurrent Symposium 3A – Lower Extremity Trauma

Moderator: MAJ Michael M. Polmear, MD, *William Beaumont Army Medical Center*

- 7:00 am-7:15 am 'THE' Arthroscopic Way to Complex Lower Extremity Fractures
LTC Kevin D. Martin, DO, Ohio State University Wexner Medical Center
- 7:15 am-7:30 am The 'Could' or 'Should' of Limb Reconstruction
Jowan Penn-Barwell, MBChB, MSc, PhD, FRCS (Tr & Orth), Institute of Naval Medicine

Concurrent Symposium 3B – Hand - Jamie Dianne Bulken-Hoover Memorial Hand Session *(Colorado Ballroom Salon 2)*

Moderators: Maj Genevieve M. Rambau, MD, *Walter Reed Military Medical Center*
Maj Dawn M. G. Rask, MD, *San Antonio Military Medical Center*

- 7:00 am-7:15 am Improving Efficiency and Finding Simplicity in Hand Fracture Management
Aviram Giladi, MD, MS, Curtis National Hand Center at Union Memorial
- 7:15 am-7:30 am Treatment of Scaphoid Fractures in Elite Athletes
A. Bobby Chhabra, MD, University of Virginia

Concurrent Session 3A – Lower Extremity Trauma

Moderators: LTC Kevin D. Martin, DO, *Ohio State University Wexner Medical Center*

Jowan Penn-Barwell, MBChB, MSc, PhD, FRCS (Tr & Orth), *Institute of Naval Medicine*

MAJ Michael M. Polmear, MD, *William Beaumont Army Medical Center*

- 7:30 am-7:36 am 20 - Single Antibiotic Use with Ceftriaxone for Prophylaxis of all Open Fractures
LT Michael W. Koulopoulos, MD, SUNY Upstate
- 7:36 am-7:42 am 57 - Ring vs. Internal Fixation in Severe Open Tibias: Observational Study
CDR Christopher H. Renninger, MD, Walter Reed National Military Medical Center
- 7:42 am-7:48 am 10 - Neighborhood Disadvantage Is Associated With Outcomes After Open Tibia Fracture
CAPT Patrick J. McGlone, MD, Walter Reed National Military Medical Center
- 7:48 am-7:54 am 123 - Coban Wrapping Significantly Reduces Operative Noise During Intramedullary Nailing
LT Evan D. Crawford, DO, Naval Medical Center Portsmouth
- 7:54 am-8:00 am Discussion
- 8:00 am-8:06 am 144 - Open Pelvic Fractures with Rectal Injuries: Is Fecal Diversion Necessary?
Clay A. Spitler, MD, University of Alabama at Birmingham
**Presented by Rachel Seymour, PhD*
- 8:06 am-8:12 am 222 - A Machine-Learning Framework for Predicting 30-Day Outcomes After Hip Fracture Surgery
CPT Benjamin A. Nelson, MD, Walter Reed National Military Medical Center
- 8:12 am-8:18 am 338 - Closed Reduction of Displaced Young Femoral Neck Fractures
LT Nicholas M. Panarello, MD, Walter Reed National Military Medical Center
- 8:18 am-8:24 am 60 - Acute vs. Delayed Fixation of High-Energy OTA/AO 43C Pilon Fractures Results in Similar Major Complication Rates
LT Reinaldo E. Colon-Morillo, MD, Naval Medical Center San Diego
- 8:24 am-8:30 am Discussion

Concurrent Session 3B – Hand (*Colorado Ballroom Salon 2*)

Moderators: A. Bobby Chhabra, MD, *University of Virginia*
 Aviram Giladi, MD, MS, *Curtis National Hand Center at Union Memorial*
 Maj Genevieve M. Rambau, MD, *Walter Reed Military Medical Center*
 Maj Dawn M. G. Rask, MD *San Antonio Military Medical Center*

- 7:30 am-7:36 am 370 - Restoring Nerve Conduction after Injury Using PEG Fusion

CAPT Manuela Gaviria, MS, MD, BAMC

- 7:36 am-7:42 am 315 - Upper Extremity Perioperative Thromboprophylaxis Protocols: A Systematic Review and Meta-Analysis
CAPT Nadiya Yerich, MD, Brooke Army Medical Center
- 7:42 am-7:48 am 96 - Preoperative Mental Health and Postoperative Outcomes in RPNI Surgery for Post-Amputation Neuromas
Aviram Giladi MD, MS, Curtis National Hand Center at Union Memorial
- 7:48 am-7:57 am Discussion
- 7:57 am-8:03 am 179 - Extensor Mechanism Assessment After Thumb Proximal Phalanx Intramedullary Screw Placement: A Cadaveric Study
CPT Mariah Arave, MD, Brooke Army Medical Center
- 8:03 am-8:09 am 363 Optimal Skyline View Angle for Detecting Dorsal Cortex Screw Penetration
CAPT Manuela Gaviria, MS, MD, BAMC
- 8:09 am-8:15 am 371 - Static vs. Dynamic External Fixation to Augment Dupuytren Fasciectomy
LCDR John P. Waggoner, MD, MPH, Naval Medical Center San Diego
- 8:15 am-8:21 am 121 - A National and Statewide Comparative Analysis of Surgical Conversion Rates for Common Hand and Wrist Fractures and Conditions
ENS Anna L. Garrison, BS, Western University of Health Sciences
- 8:21 am-8:30 am Discussion
- 8:30 am-8:50 am *Break with Exhibitors (Grand Ballroom Salons A-E & Foyer)*

Concurrent Panel Discussion 3A – Lower Extremity Trauma

Moderator: MAJ Michael M. Polmear, MD, *William Beaumont Army Medical Center*

- 8:50 am-9:20 am Panel Discussion
Panel: *LTC Kevin D. Martin, DO, Ohio State University Wexner Medical Center*
Jowan Penn-Barwell, MBChB, MSc, PhD, FRCS (Tr & Orth), Institute of Naval Medicine

Concurrent Panel Discussion 3B – Hand (Colorado Ballroom Salon 2)

Moderators: Maj Genevieve M. Rambau, MD, *Walter Reed Military Medical Center*
Maj Dawn M. G. Rask, MD, *San Antonio Military Medical Center*

- 8:50 am-9:20 am Panel Discussion
Panel: *A. Bobby Chhabra, MD, University of Virginia*
Aviram Giladi, MD, MS, Curtis National Hand Center at Union Memorial

9:25 am-9:40 am **Business Meeting**
Col R. Judd Robins, MD, United States Air Force Academy
**CME Credit not available*

Symposium 4 – Foot and Ankle

Moderator: Maj Paul Schroeder, MD, *US Air Force Academy*

9:40 am-9:55 am How MIS Changed my Practice
LTC Kevin D. Martin, DO, Ohio State University Wexner Medical Center

9:55 am -10:10 am Treatment of OCD Lesions of the Foot and Ankle
C. Thomas Haytmanek, MD, Steadman Clinic

10:10 am-10:30 am Break with Exhibitors (Grand Ballroom Salons A-E & Foyer)

General Session 4 – Foot and Ankle

Moderators: C. Thomas Haytmanek, MD, *Steadman Clinic*
 LTC Kevin D. Martin, DO, *Ohio State University Wexner Medical Center*
 LTCOL Jeannie Huh, MD, *Brooke Army Medical Center*

10:30 am-10:36 am 105 - Achilles Repair Using a Percutaneous Knotless Bridge Technique
 Provides Encouraging Functional Outcomes with Return to Sport
Kyle Huntley, MD, The Ohio State University
**Presented by Kevin D. Martin, DO*

10:36 am-10:42 am 106 - Critical Bone Defect and Deformity Correction with a 3D Printed
 Cage
CAPT Jacob Priester, MD, UC Davis Medical Center

10:42 am-10:48 am 254 - A Comparison of Spatiotemporal Gait Analysis in Open Haglund's
 Resection vs. Percutaneous Zadek Osteotomy for Insertional Achilles
 Tendinopathy
*CPT Sarah Hall Kiriluk, MD, Walter Reed National Military Medical
Center*

10:48 am-10:54 am 275 - Ankle Fractures with Vascular Calcifications Associated with
 Wound Complications
CPT Wyatt A.R. Smith, MD, MPH, San Antonio Military Medical Center

10:54 am-11:00 am Discussion

11:00 am-11:06 am 279 - Preoperative Steroid Injections and Periprosthetic Infection Risk in
 Ankle Arthroplasty
Andrew Ni, MD, University of Texas Health Science Center San Antonio

11:06 am-11:12 am 29 - Return to Duty in Nonoperative vs. Mini Open Achilles Repair
LCDR Jordan G Tropsf, MD, US Naval Hospital Guam
**Presented by LT Conor F. McCarthy, MD*

- 11:12 am-11:18 am 62 - Is Total Ankle Arthroplasty Adequately Compensated? A Propensity Score-Matched Comparison of Work Relative Value Units with Other Joint Arthroplasties
LT Andrew D. Lachance, MD, Guthrie Clinic
- 11:18 am-11:24 am 184 - Zone 1 Endoscopic Flexor Hallucis Longus Tendon Transfer, a Biomechanical Analysis
LTC Kevin D. Martin, DO, Ohio State University Wexner Medical Center
**Presented by Nathaniel Bates, PhD*
- 11:24 am-11:30 am Discussion

Panel Discussion 4: Foot and Ankle

Moderator: MAJ Patrick D. Grimm, MD, *Dwight D. Eisenhower Army Medical Center*

- 11:30 am-12:00 pm Panel Discussion
Panel: *C. Thomas Haytmanek, MD, Steadman Clinic*
LTC Kevin D. Martin, DO, Ohio State University Wexner Medical Center
- 12:00 am-1:00 pm **Focused Lunch Presentations**
Red One Medical (*Colorado Ballroom Salon 2*)
Vericel (*Mountain View*)
Vertex (*Colorado Ballroom Salon 1*)
Zimmer Biomet (*Berry Picker*)
**CME Credit not available*
- 1:15 pm-3:00 pm **Scientific E-Poster Session** (*Sun Down*)
(Presenters will be available to answer questions)

(Presenters will be available to answer questions)
- 3:00 pm-5:15 pm **Meeting Registration** (*Grand Ballroom Foyer*)

Rapid Fire Sessions 2A – Trauma (*Mountain View*)

Moderators: MAJ Timothy P. Murphy, MD, *Fort Belvoir*

- 3:00 pm-3:04 pm 146 - Closed Reductions of Partial Sacroiliac Joint Injuries: Finite Element Study
Ryan Serbin, MD, Atrium Health Musculoskeletal Institute
- 3:04 pm-3:08 pm 169 - Longitudinal Relationships Between Pain, Depression, and Anxiety after Extremity Injuries
Phillip T. Grisdela, MD, Harvard Combined Orthopaedic Residency Program
- 3:08 pm-3:12 pm 350 - Intraoperative Multidimensional Fluoroscopy Leads to Surgeon Modification of Reduction and Implant Fixation
PT Umar A. Khan, MD, Walter Reed National Military Medical Center

- 3:12 pm-3:16 pm 59 - How Good are We at Getting it Right? Anatomic Reductions are Rarely Achieved for Severely Displaced Pilon Fractures and this Portends Severe Osteoarthritis
LT Reinaldo E. Colon-Morillo, MD, Naval Medical Center San Diego
- 3:16 pm-3:20 pm 61 - Anterolateral Distal Tibia Locking Plates Result in Fewer Major Complications than Medial Distal Tibia Locking Plates
LT Reinaldo E. Colon-Morillo, MD, Naval Medical Center San Diego
- 3:20 pm-3:24 pm 14 - Incidence and Management of Periprosthetic Fractures in Transfemoral Osseointegrated Implants
CPT Colin Harrington, MD, Walter Reed National Military Medical Center
**Presented by LT Valentina Ramirez MD*
- 3:24 pm-3:30 pm Discussion
- 3:30 pm-3:34 pm 66 - Short vs. Long Leg Splints for Stabilization of Tibia Fractures
2LT Dalton J. Ennis, BS, Saint Louis University School of Medicine
**Presented by Capt Ashley Gall, MD*
- 3:34 pm-3:38 pm 122 - Does Surgeon Severity Ranking of Ankle Fractures Correlate with Gait?
Natalie Marengi, Atrium Health Musculoskeletal Institute
**Presented by Rachel Seymour, PhD*
- 3:38 pm-3:42 pm 178 - Lead Levels Remain High after Gunshot Wounds and Retained Bullets
Jennifer Lewis, BA, University of Chicago
- 3:42 pm-3:46 pm 302 - Preoperative Planning for Orthopaedic Trauma: Efficacy of Structured Instruction
CPT Marc Nicholes, DO, William Beaumont Army Medical Center
- 3:46 pm-3:50 pm 375 - Estimation of Distal Femoral Interlocking Screw Length Using Anatomic Zones
Douglas Zhang BA, University of Chicago Pritzker School of Medicine
- 3:50 pm-3:54 pm 67 - Intraoperative Bone Quality Assessments are Accurate Compared to HU Measurements
Jennifer Lewis, BA, University of Chicago
- 3:54 pm-4:00 pm Discussion

Rapid Fire Sessions 2B – Hand (Berry Picker)

Moderators: LTC Elizabeth M. Polfer, MD, *William Beaumont Army Medical Center*

- 3:00 pm-3:04 pm 271 - Emergent Smart Ring Removal: A Review of Manufacturer Safety Information
LT Parker Rea, MD, Naval Medical Center San Diego

- 3:04 pm-3:08 pm 49 - Identifying Risk Factors for Reintervention Following Closed Reduction and Percutaneous Pinning of Metacarpal Fractures
Capt Natalia Pluta, MD, MS, Brooke Army Medical Center
- 3:08 pm-3:12 pm 176 - Distal Radius Fracture ED Management: Guide for Junior Residents
Mohammed A. Pourghaed, MD, William Beaumont Army Medical Center
- 3:12 pm-3:16 pm 230 - Crescentic Osteotomy for Metacarpal Malunion: A Novel Surgical Technique
LT Thomas J. Berault, MD, Naval Medical Center Portsmouth
- 3:16 pm-3:20 pm 300 - Modern Approach to Wrist Arthroscopy Utilizing the TRIMANO Support Arm
CPT Zachary Hubler, DO, Eisenhower Army Medical Center
**Presented by CPT Brandon M. Barbary, DO*
- 3:20 pm-3:28 pm Discussion
- 3:28 pm-3:32 pm 317 - Outcomes of Surgical Thumb Collateral Ligament Injuries in Servicemembers
CPT John A. Wahl, MD, MS, Tripler Army Medical Center
- 3:32 pm-3:36 pm 43 - Distal Radius Fractures Among Active Duty Service Members
Mark Schmitt MD, MS, Carilion Clinic
- 3:36 pm-3:40 pm 344 - High-Pressure Injection Injuries of the Upper Extremity: An Updated Review
LT Kyle P. Wieschhaus, MD, Naval Medical Center Portsmouth
- 3:40 pm-3:44 pm 75 - Pre-Hospital Tourniquet Use: A Double-Edged Sword
LT Karolina A. Serhan, MD, Naval Medical Center Portsmouth
**Presented by LT Skyler D. Walker, MD*
- 3:44 pm-3:48 pm 34 - Return-to-Duty with a Novel Treatment Approach for Scaphoid NonUnion Repair Using a 3D Printed Cast
Kathleen McKeon, MD, Kathleen McKeon
**Presented by Amanda Harding, MD*
- 3:48 pm-3:52 pm 68 - Dynamic-only External Fixation for a Chronic PIPJ Dislocation: Case Report
LT Isaiah Jackson, MD, Naval Medical Center Portsmouth
- 3:52 pm-4:00 pm Discussion

Rapid Fire Sessions 2C – Shoulder Arthroplasty (Colorado Ballroom Salon 1)

Moderators: MAJ John Scanaliato, MD, *William Beaumont Army Medical Center*

- 3:00 pm-3:04 pm 218 - Reverse Total Shoulder Arthroplasty Fails to Improve Self-Reported Shoulder Strength

Capt Briana M. Pompa-Hogan, MD, Brooke Army Medical Center

- 3:04 pm-3:08 pm 245 - Promising Low Revisions Rates with Shoulder Arthroplasty in Young Patients
MAJ Michael Baird, MD, Brooke Army Medical Center
- 3:08 pm-3:12 pm 291 - Risk Factors for Conversion Shoulder Arthroplasty After Proximal Humerus Fixation
Andrew Ni, MD, University of Texas Health Science Center San Antonio
- 3:12 pm-3:16 pm 304 - Patients with History of Cervical Spine Surgery Demonstrate Worse Patient Reported Outcomes After Shoulder Arthroplasty
CPT Franklin J. Powlan, MD, William Beaumont Army Medical Center
- 3:16 pm-3:20 pm 72 - Predictors of Regaining the Ability to Sleep After Shoulder Arthroplasty
2nd LT Sydney R. Flanagan, BS, Loyola University Medical Center
- 3:20 pm-3:24 pm 237 - Cost of Publishing in Orthopaedic Research
LT David A Cieremans, DO, MS, Naval Medical Center Portsmouth
- 3:24 pm-3:30 pm Discussion
- 3:30 pm-3:34 pm 5 - Why Primary Reverse Total Shoulder Arthroplasties Fail Today: A Systematic Review and Meta-Analysis
LT Andrew J. Recker, MD, Wake Forest School of Medicine
- 3:34 pm-3:38 pm 303 - A Case Series Establishing Safe Same-Day Revision Shoulder Arthroplasty
CPT John K. McNamara, MD, William Beaumont Army Medical Center / Texas Tech
- 3:38 pm-3:42 pm 306 - Humeral Head Autograft vs. Augmented Glenoid Baseplates in Reverse Total Shoulder Arthroplasty
CPT Cole Johnson, MD, William Beaumont Army Medical Center
- 3:42 pm-3:46 pm 41 - Outcomes of Modular Diaphyseal vs. Non-Modular Metaphyseal rTSA Stem for Three- and Four-Part Proximal Humerus Fractures
LT Andrew D. Lachance, MD, Guthrie Clinic
- 3:46 pm-3:50 pm 83 - Selective Pre-Operative Corticosteroid Injections do not Impair Post-Operative Outcomes following Total Shoulder Arthroplasty
Matthew W. Parry, MD, MS, Geisinger
- 3:50 pm-3:54 pm 4 - Stress Shielding: Traditional vs. Short Stem Humeral Prostheses in TSA
Jacques Van Zyl, BS, University of Alabama at Birmingham
- 3:54 pm-4:00 pm Discussion

Rapid Fire Sessions 2D– Sports Medicine (*Colorado Ballroom Salon 2*)

Moderators: LTCOL Christina Hylden, MD, *Blanchfield Army Community Hospital*
Lt Col Haydn Roberts, MD, *MacDill Air Force Base*

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| 3:00 pm-3:04 pm | 217 - Immediate Weightbearing After Meniscal Root Repair
<i>Jacob D. Schultz, MD, Vanderbilt University Medical Center</i> |
| 3:04 pm-3:08 pm | 238 - Higher MACI Conversion Rate following Cartilage Biopsy in Military Population
<i>2d Lt Ryan M Sanborn, BA, Uniformed Services University of the Health Sciences</i>
<i>*Presented by Capt Natalia Pluta, MD, MS</i> |
| 3:08 pm-3:12 pm | 314 - Assessing Military Artificial Intelligence Responses to ACL Injury FAQs
<i>LT Andrew J. Rosso, MD, Naval Medical Center San Diego</i>
<i>*Presented by LT Harrison Diaz, MD</i> |
| 3:12 pm-3:16 pm | 330 - Protective Effects of ACE Inhibitors on Developing Ankylosis of the Knee Following Knee Injury
<i>Nadia Hackett, Howard University, College of Medicine</i> |
| 3:16 pm-3:20 pm | 53 - Role of Superficial Peroneal Nerve Compression in Exertional Compartment Syndrome
<i>MAJ Nathan P. Thomas Jr., MD, Brian D Allgood Army Community Hospital</i> |
| 3:20 pm-3:24 pm | 349 - Revision Posterior Labral Repair: Outcomes and Risk Factors for Failure
<i>LT Aidan McQuade, MD, Walter Reed National Military Medical Center</i> |
| 3:24 pm-3:30 pm | Discussion |
| 3:30 pm-3:34 pm | 102 - Rotator Cuff Tears – An International Consensus Delphi Statement
<i>ENS Lindsey G. Johnson, MBA, BS, Duke University</i> |
| 3:34 pm-3:38 pm | 278 - Incidental Findings of Shoulder Instability for Incoming Service Academy Members
<i>Col. R. Judd Robins MD United States Air Force Academy</i> |
| 3:38 pm-3:42 pm | 331 - Comparative MRI and CT Evaluation of Traumatic Posterior Shoulder Dislocation
<i>LT Hannah Gibbs, MD, Walter Reed National Military Medical Center</i>
<i>*Presented by LT Aidan McQuade, MD</i> |
| 3:42 pm-3:46 pm | 205 - Establishing the Patient-Reported Outcome Measure Thresholds following Arthroscopic Remplissage
<i>CPT Annette Yoon MD, William Beaumont Army Medical Center</i> |
| 3:46 pm-3:50 pm | 130 - Driving Biomechanics after Upper Extremity Surgery |

2nd LT Sydney R. Flanagan, BS, Loyola University Medical Center

3:50 pm-3:54 pm 378 - Biomechanical Comparison of Single vs Double Double-Row Bony Bankart Repair
LT (Ret.) Taylor Calibo, BS, MSc, Steadman and Philippon Research Institute

3:54 pm-4:00 pm Discussion

Rapid Fire Sessions 2E – Foot and Ankle (Sun Down)

Moderators: MAJ Patrick D. Grimm, MD, *Dwight D. Eisenhower Army Medical Center*

LTCOL Jeannie Huh, MD, *Brooke Army Medical Center*

Maj Paul Schroeder, MD, *US Air Force Academy*

3:00 pm-3:04 pm 260 - Analysis of Union Rates, Functional Outcomes and Complications after the Use of Autograft vs. Allograft in Midfoot and Hindfoot Arthrodesis
CPT Sarah Hall Kiriluk, MD, Walter Reed National Military Medical Center

3:04 pm-3:08 pm 274 - Comparing Patient Reported Outcomes and Complications Following Open vs. Minimally Invasive Double and Triple Arthrodesis for Rigid Flatfoot Deformity: A Retrospective Analysis
CPT Sarah Hall Kiriluk, MD, Walter Reed National Military Medical Center

3:08 pm-3:12 pm 301 - Adverse Outcomes of Definitive External Fixation in Diabetic Ankle Fractures
Cameron Bowers, BS, University of Texas Medical Branch

3:12 pm-3:16 pm 381 - Biomechanical Evaluation of Nitinol vs. Plate Fixation in MTP Arthrodesis
LT (Ret.) Taylor Calibo, BS, MSc, Steadman and Philippon Research Institute

3:16 pm-3:20 pm 19 - Percutaneous Intramedullary Screws for Lesser Metatarsal Fractures May Injure the Flexor Tendons: A Cadaveric Study
CPT James D. Baker, MD, San Antonio Military Medical Center

3:20 pm-3:24 pm 118 - Comparative Outcomes in Tibiotalocalcaneal Fusion with or without Bioactive Glass
Kate Donnelly, MD, LSUHSC Orthopedic Surgery
**Presented by Maj Meredith Warner, MD MBA*

3:24 pm-3:30 pm Discussion

3:30 pm-3:34 pm 181 - Evaluation of Radiographic Height of the Ankle Joint in Healthy Controls
CPT Kyle J. Klahs, DO, William Beaumont Army Medical Center

- 3:34 pm-3:38 pm 353 - Screening for Poor Bone Mineral Density using Opportunistic Foot Radiographs
CPT James A. Albright, MD, ScM, Brooke Army Medical Center
- 3:38 pm-3:42 pm 229 The Pinch Test for the Diagnosis of Unstable Lisfranc Injuries
LT Thomas J. Berault, MD, Naval Medical Center Portsmouth
- 3:42 pm-3:46 pm 235 - Epidemiology of Achilles Tendon Ruptures in Professional American Football Players
CPT James Pruneski, MD, Tripler Army Medical Center
- 3:46 pm-3:50 pm 309 - Biomechanical Evaluation of Isolated Lateral Malleolar Fixation in Bimalleolar Ankle Fractures
LT Nicholas M. Panarello, MD, Walter Reed National Military Medical Center
- 3:50 pm-3:54 pm 327 - Flat Feet and Risk of Stress Fracture in College-Aged Women
Lakin Hatcher, BA, Howard University, College of Medicine
- 3:54 pm-4:00 pm Discussion
- 4:00 pm-4:15 pm *Refreshment Break (Grand Ballroom Foyer)*

Special Session 2 - Finance for the Military Orthopaedic Surgeon

Moderator: Lt Col Aaron E. Barrow, MD, *Eglin Air Force Base*

- 4:15 pm - 5:15 pm Finance for the Military Orthopaedic Surgeon
James Dahle, MD, White Coat Investor
- 5:20 pm- 6:20 pm **Service Breakouts/Reserve Info Session**
Air Force (Colorado Ballroom Salon 1)
Army (Grand Ballrooms Salons F-J)
Navy (Colorado Ballroom Salon 2)
Reservist Information Session (Berry Picker)
**CME Credit not available*
- 6:30 pm-9:00 pm **Commander's Cup Event – Hammerschlagen** (*Grand Ballroom Salon A-E*)

Thursday, December 11 - Warren Kadrmas Memorial Sports Day

- 6:00 am-8:00 pm **Speaker Ready Room** (*Blue Sky*)
- 6:30 am-11:15 am **Meeting Registration** (*Grand Ballroom Foyer*)

Concurrent Symposium 5A – Sports Knee

Moderator: LT COL Shawn M. Gee, MD, *Keller Army Community Hospital*

7:00 am-7:15 am ACL Graft: What to Use in 2025
Eric C. McCarty, MD, University of Colorado School of Medicine

7:15 am-7:30 am Osteotomy in 2025
Armando F. Vidal, MD, Steadman Clinic

Concurrent Symposium 5B – Tumor (Colorado Ballroom Salon 2)

Moderator: Lt Col Dustin O. Lybeck, MD, USAF, *Brooke Army Medical Center*
 LTC Gabriel J. Pavey, MD, *Madigan Army Medical Center*

7:00 am-7:15 am Tumor Presentation
Jonathan A. Forsberg, MD, PhD, Memorial Sloan Kettering Cancer Center

7:15 am-7:30 am Distraction Osteogenesis for Large Defects in Sarcoma
Daniel Prince, MD, Memorial Sloan Kettering Cancer Center

Concurrent Session 5A – Sports Knee

Moderators: Eric C. McCarty, MD, *University of Colorado School of Medicine*
 Armando F. Vidal, MD, *Steadman Clinic*
 LT COL Shawn M. Gee, MD, *Keller Army Community Hospital*

7:30 am-7:36 am 285 - Graft Comparison for ACL Reconstruction: Outcomes and Postoperative Strength Testing
MAJ Connor Venrick, MD, Keller Army Community Center at West Point
**Presented by Kenneth L. Cameron, PhD, MPH*

7:36 am-7:42 am 132 - Blumensaat Line on Lateral Radiograph as a Correlation of ACL Length Measured on MRI
LT Frederic B. Mills, MD, MS, Duke University Health System

7:42 am-7:48 am 276 - Knee Joint Platelet-Rich Plasma Injections in the Sports Medicine Clinic
Col. R. Judd Robins, MD, United States Air Force Academy

7:48 am-7:54 am 369 - Baseline Measures of Psychology and Mental Health Among Patients Undergoing ACLR: An IMPACT Cohort Study
Lt Col Andrew J. Sheean, MD, Brooke Army Medical Center
**Presented by MAJ Daniel J. Cognetti, MD*

7:54 am-8:00 am Discussion

8:00 am-8:06 am 150 - A Large-Scale Analysis of Secondary ACL Injuries in Pediatric and Adolescent Populations
CPT James Pruneski, MD, Tripler Army Medical Center

8:06 am-8:12 am 42 - Larger Lateral Femoral Condyle-to-Tibial Plateau Ratio Elevates Risk of Primary and Revision ACL Tears
Justin J. Ernat, MD, University of Utah Health

- 8:12 am-8:18 am 143 - Does MCL Repair with Bracing Restore Native Joint Stability, Strength?
Ryan Serbin MD, Atrium Health Musculoskeletal Institute
- 8:18 am-8:24 am 357 - Fresh Patellar Tendon (BTB) Maintains Native Viability, Improved Gene Expression, and Superior Biomechanics Compared to Frozen Tendons
CAPT (Ret) Matthew Provencher, MD, MBA, The Steadman Clinic
- 8:24 am-8:30 am Discussion

Concurrent Session 5B – Tumor (Colorado Ballroom Salon 2)

Moderators: Jonathan A. Forsberg, MD, PhD, *Memorial Sloan Kettering Cancer Center*
Daniel Prince, MD, *Memorial Sloan Kettering Cancer Center*
Lt Col Dustin O. Lybeck, MD, USAF, *Brooke Army Medical Center*
LTC Gabriel J. Pavey, MD, *Madigan Army Medical Center*

- 7:30 am-7:36 am 79 - Giant Cell Tumor of Bone: Results of Anti-Sclerostin Therapy
CPT Jonah M. Liwag, MD, Tripler Army Medical Center
- 7:36 am-7:42 am 74 - Reconstruction for Primary Bone Cancer: MHS Data Repository Retrospective Analysis
LT Kieran S.M. Wolf, MD, Naval Medical Center San Diego
**Presented by LCDR Anneliese E Vitha, MD*
- 7:42 am-7:48 am 298 - Island vs. Inland: The Geographic Epidemiology of Sarcomas in Hawaii and the Mainland
CPT Andrew R. Cooper, MD, Tripler Army Medical Center
- 7:48 am-7:54 am 94 - Tenosynovial Giant Cell Tumor in the Military: Retrospective Analysis
LCDR Anneliese E Vitha, MD, Naval Medical Center San Diego
- 7:54 am-8:00 am Discussion
- 8:00 am-8:06 am 318 - Radiation Associated Fractures and Their Complications: A Systematic Review
CPT Nicole E. Butler, MD, Tripler Army Medical Center
- 8:06 am-8:12 am 156 - Osteomorphs in Bone Sarcoma and Giant Cell Tumor of Bone
Tyler Shimabukuro, BA, Tripler Army Medical Center
**Presented by Courtney Lavin, MD*
- 8:12 am-8:18 am 209 - Recovery After Surgical Treatment of Benign Bone Tumors in the Military
CPT Courtney Lavin, MD, Madigan Army Medical Center
- 8:18 am-8:24 am 283 - Biomechanical Assessment of Bone Loss in Transfemoral and Knee Disarticulation Amputees

Surg Lt Cdr (RN) Louise McMenemy, MBBS, BSc(hons), Imperial College London

8:24 am-8:30 am Discussion

Concurrent Panel Discussion 5A – Sports Knee

Moderator: LT COL Liang Zhou, MD, *Walter Reed National Military Medical Center*

8:30 am-9:00 am Panel Discussion

Panel: *Annunziato Ned Amendola, MD, Duke University*
Eric C. McCarty, MD, University of Colorado School of Medicine
Armando F. Vidal, MD, Steadman Clinic

Concurrent Panel Discussion 5B – Tumor (Colorado Ballroom Salon 2)

Moderator: Lt Col Dustin O. Lybeck, MD, *Brooke Army Medical Center*
LTC Gabriel J. Pavey, MD, *Madigan Army Medical Center*

8:30 am-9:00 am Panel Discussion

Panel: *Jonathan A. Forsberg, MD, PhD, Memorial Sloan Kettering Cancer Center*
Daniel Prince, MD, Memorial Sloan Kettering Cancer Center

9:00 am-9:15 am Refreshment Break (Grand Ballroom Foyer)

Special Session 3 – Orthopaedics Looking Forward

Moderator: Col R. Judd Robins, MD, *United States Air Force Academy*

9:15 am- 9:35 am Artificial Intelligence

COL Daniel J. Stinner, MD, PhD, Vanderbilt University Medical Center

9:35 am- 9:55 am Orthopedic Innovation

Marc J. Philippon, MD, Steadman Clinic and Steadman Philippon

9:55 am - 10:15 am AAOS Presidential Address: Future Challenges in Orthopedics

Annunziato Ned Amendola, MD, Duke University

10:15 am- 10:45 am Questions and Answers / Panel Discussion

Special Session 4 – Practice Management

Moderator: CDR Theodora Dworak, MD, *Walter Reed National Military Medical Center*

10:45 am- 10:55 am The Power of the Pen

Lt Col Kimberly Broughton, MD, Eglin Air Force Base

10:55 am- 11:15 am Optimizing Recovery: Evidence-Based Post-Operative Nutrition Interventions

Diana Nguyen, MS, RDN, Human Performance Program, Ft Bragg

11:15 am-12:15 pm **Focused Lunch Presentations**

Heron Therapeutics, Inc. (Colorado Ballroom Salon 1)

Orthofix (*Mountain View*)
Differentiating Solutions for Treatment of Bone Defects and Nonunions
John A. Scolaro, MD, MA
Tenent Healthcare (*Colorado Ballroom Salon 2*)
**CME Credit not available*

12:15 pm-2:30 pm **Scientific E-Poster Session** (*Sun Down*)
(Presenters will be available to answer questions)

2:30 pm-5:15 pm **Meeting Registration** (*Grand Ballroom Foyer*)

Rapid Fire Sessions 3A – Spine (*Mountain View*)

Moderators: LTC Alfred J. Pisano, MD, *Walter Reed National Military Medical Center*

2:30 pm-2:34 pm 223 - An Early Outcomes and Compensation Trends Analysis of 51,216
Single-Level Laminectomy Patients
LT Anthony M. Smyth, MD, University of Colorado School of Medicine

2:34 pm-2:38 pm 225 - A Machine-Learning Framework for Predicting 30-Day Outcomes
After Lumbar Decompression
CPT Benjamin A. Nelson, MD, Walter Reed National Military Medical Center

2:38 pm-2:42 pm 293 - A Machine-Learning Framework for Predicting 30-Day Outcomes
After Anterior Cervical Discectomy and Fusion
CPT Benjamin A. Nelson, MD, Walter Reed National Military Medical Center

2:42 pm-2:46 pm 17 - Systematic Review of Vertebral Artery Injury in Cervical
Arthroplasty
Gonzalo Del Rio Montesinos, BS, Universidad Central del Caribe

2:46 pm-2:50 pm 64 - Anterior Ultrasound Imaging of the Lumbar Spine: Defining Normal
Parameters
CPT Cody D. Schlaff, MD, Walter Reed National Military Medical Center

2:50 pm-2:54 pm 305 - Perioperative Complications of ALIF and PLIF in Veterans
CPT Megan E. Barney, MS, MD, Brooke Army Medical Center

2:54 pm-3:00 pm Discussion

3:00 pm-3:04 pm 272 - Staged vs. Simultaneous Tandem Spinal Stenosis Surgery: Clinical
Outcomes and Costs
2LT Malina O Hatton, MB, Harvard Medical School

3:04 pm-3:08 pm 40 - Outcomes following Endoscopic Spine Surgery in Active Duty
Military
LT David Musher, MD, Naval Medical Center Portsmouth

3:08 pm-3:12 pm 115 - Rod Placement and Tulip Design on Screw-Rod Gripping Capacity

COL (Ret) David W. Polly Jr., MD, University of Minnesota

- 3:12 pm-3:16 pm 92 - Traumatic Subarachnoid Pleural Fistula after Motorcycle Crash: a Case Report
CPT Michael K. Deegan, MD, MAMC Orthopaedics
- 3:16 pm-3:20 pm 321 - Spine Injuries Resulting from Migration-Related Vehicular Pursuits
CPT David Fogg, MD, William Beaumont Army Medical Center
- 3:20 pm-3:24 pm 109 - Risk Factors for Cervicalgia in Active-Duty Rotary Wing Aviators
CPT Cecelia O. Brown, MS, MD, Womack Army Medical Center
- 3:24 pm-3:30 pm Discussion

Rapid Fire Sessions 3B – Basic Science (*Berry Picker*)

Moderators: Lt Col Dustin O. Lybeck, MD, USAF, *Brooke Army Medical Center*

- 2:30 pm-2:34 pm 89 - Elevated CD14 Expression in Blood of Patients with Shoulder Osteoarthritis
Captain Colby Brunette, Bsc, MD, Madigan Army Medical Center
- 2:34 pm-2:38 pm 270 - Deflazacort and SOSTab Synergistically Improve Bone Microarchitecture in Dystrophin-/-/Utrophin-/- Mice
Xueqin Gao MD, PhD, Steadman Philippon Research Institute
- 2:38 pm-2:42 pm 170 - Hounsfield Units for Osteoporotic Hip Fracture Screening ñ A Biomechanical Evaluation
CPT Akshat Parekh, MD, Meng, WRNMMC Orthopaedic Surgery
- 2:42 pm-2:46 pm 286 - Impact of Preoperative Antibiotic Administration on Culture Positivity in Musculoskeletal Infections: A Preclinical Investigation
Lauren Luther, MD, Vanderbilt University Medical Center
**Presented by Jacob D. Schultz, MD*
- 2:46 pm-2:50 pm 160 - Bone Morphogenetic Protein 4 mRNA Improves Cartilage Repair in Osteoarthritis
Keisuke Nakayama MD, PhD, Steadman Philippon Research Institute
- 2:50 pm-2:54 pm 116 - Insertional Torque and Pull-Out Strength for Re-inserted Porous Threaded Implants
COL (Ret) David W. Polly Jr., MD, University of Minnesota
- 2:54 pm-3:00 pm Discussion
- 3:00 pm-3:04 pm 342 - Quadriceps and Patellar Tendon Moduli in Functional Ranges of Strain
Akshat Parekh MD, Meng, WRNMMC Orthopaedic Surgery
**Presented by Steven Voinier, PhD*

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|-----------------|--|
| 3:04 pm-3:08 pm | 206 - Characterizing Periostin Expression in a Rat model of Shoulder Instability
<i>James C. Nepola, BS, University of Iowa</i> |
| 3:08 pm-3:12 pm | 124 - Enhancing Interfragmentary Compression with Divergent Locking Screws: A Biomechanical and Cadaveric Study of Insertion Order and Screw Angulation
<i>James W. Johnson, PhD, Enovis</i> |
| 3:12 pm-3:16 pm | 281 - Bioactive Glass Dressings For Infected Wounds: A Systematic Review
<i>Capt Nandesh C Patel, MBChB, BSc (Hons), British Army</i>
<i>*Presented by Major Henry A. Claireaux, MB, ChB</i> |
| 3:16 pm-3:20 pm | 288 - Novel Fracture Non-Union Animal Model Using In-Vivo Monitoring of Infection
<i>Major Louise A. Robiati BSc (Hons), MBChB (Hons), MSc SEM, PhD, Academic Department of Military Surgery and Trauma</i> |
| 3:20 pm-3:24 pm | 188 - Differential Gene Expression in SLAP Tears and Shoulder Instability
<i>CPT Caleb D. Gerber, MD, MBA, Madigan Army Medical Center</i> |
| 3:24 pm-3:30 pm | Discussion |

Rapid Fire Sessions 3C – Practice Management / Education and Artificial Intelligence
(Colorado Ballroom Salon 1)

Moderator: CDR Theodora Dworak, MD, *Walter Reed National Military Medical Center*

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|-----------------|--|
| 2:30 pm-2:34 pm | 174 - Using AI to Evaluate Citation Integrity in Medical Literature
<i>CPT William McClelland, MD, William Beaumont Army Medical Center</i> |
| 2:34 pm-2:38 pm | 186 - The Effect of Surgeon Initiated Phone Calls on Pain Scores and Postoperative Communication
<i>Capt Andrew D. Maeso, DO, Grandview - Kettering Health Orthopedic Surgery Residency Program</i> |
| 2:38 pm-2:42 pm | 1 - Dollars and Disparities: Executive Compensation in American Non-Profit Healthcare
<i>CPT Joshua A. Hansen, MD, William Beaumont Army Medical Center</i> |
| 2:42 pm-2:46 pm | 215 - Appropriateness of Patients Transferred With Orthopedic Injuries: A Retrospective Study
<i>Capt Cole R. Phelps, BS, DO, SAUSHEC Orthopaedic Surgery</i> |
| 2:46 pm-2:50 pm | 21 - Open Marketplace Platform Increases Operating Room Utilization
<i>LT Andrew J. Recker, MD, Wake Forest School of Medicine</i> |
| 2:50 pm-2:54 pm | 107 - Orthopedic Healthcare Disparity Effects on US Military Readiness and Retention |

CPT Cecelia O. Brown, MS, MD, Womack Army Medical Center

- 2:54 pm-3:00 pm Discussion
- 3:00 pm-3:04 pm 45 - Burnout and Work-Life Attributes Across Japanese and American Orthopaedic Surgeons
CDR Lucas S. McDonald, MD, MPHTM, Naval Medical Center San Diego
- 3:04 pm-3:08 pm 296 - Utilization and cost of PRP covered by TRICARE: 2019-2024
LT Addison G. Cantor, Naval Medical Center Portsmouth
- 3:08 pm-3:12 pm 175 - Prevalence of AI Contribution to Orthopedic Abstracts: 2015 vs 2024
Mohammed A. Pourghaed, MD, William Beaumont Army Medical Center
- 3:12 pm-3:16 pm 137 - Predictive Modeling of Unplanned Emergency Department Utilization in Hip Osteoarthritis Patients
LT Frederic B. Mills, MD, MS, Duke University Health System
- 3:16 pm-3:20 pm 80 - Child Opportunity Index 3.0 and its Effects on ACLR PT Utilization
LT Hannah Gibbs, MD, Walter Reed National Military Medical Center
**Presented by LT Valentina Ramirez MD*
- 3:20 pm-3:24 pm 180 - A Longitudinal Analysis of Physician Suicide: Trends and Insights
Micah Ngatuvai, MD, MBA, Texas Tech Health Sciences Center / William Beaumont Army Medical Center
- 3:24 pm-3:30 pm Discussion

Rapid Fire Sessions 3D – Sports Knee (Colorado Ballroom Salon 2)

Moderators: *Lt Col Christina Hylden, MD, Bassett Army Community Hospital*

- 2:30 pm-2:34 pm 86 - 3D-Printed Offloading Knee Brace Improves Patellofemoral OA Function and Pain
Matthew W. Parry, MD, MS, Geisinger
- 2:34 pm-2:38 pm 335 - Novel Patellofemoral Unloader Brace Demonstrates Significant Improvements in OA Patients
Simon Goertz, MD, Icarus Medical Innovations
- 2:38 pm-2:42 pm 295 - Anatomic MPFLR Is Safe and Durable for Skeletally Immature Patients
ENS Joseph R. Fontana, BA, University of Virginia School of Medicine
- 2:42 pm-2:46 pm 73 - Biomechanical Comparison of Staple vs. Suture Anchor: Modified Lemaire LET
LT Hannah Gibbs, MD, Walter Reed National Military Medical Center
**Presented by LT Valentina Ramirez MD*

- 2:46 pm-2:50 pm 333 - Association of Sleep Disorder Diagnosis with Patient-Reported Outcomes After Anterior Cruciate Ligament Reconstruction
LT Janse Schermerhorn, MD, Walter Reed National Military Medical Center
- 2:50 pm-2:54 pm 78 - Biomechanical Evaluation of Hybrid vs. Screw Tibial ACL Fixation
LT Hannah Gibbs, MD, Walter Reed National Military Medical Center
**Presented by LT Valentina Ramirez MD*
- 2:54 pm-3:00 pm Discussion
- 3:00 pm-3:04 pm 30 - Distinct Proximal Tibial Morphometric Parameters in Primary ACL Tears vs. Re-Tears
Justin J. Ernat, MD, University of Utah Health
- 3:04 pm-3:08 pm 337 - Primary ACL Reconstruction Among Service Members: A MOTION Cohort Analysis
Lt Col Andrew J. Sheean, MD, Brooke Army Medical Center
**Presented by LTC David J. Tennent, MD*
- 3:08 pm-3:12 pm 384 - Biomechanical Evaluation of Posterior Segmental Medial Meniscal Allograft Transplantation
LT (Ret.) Taylor Calibo, BS, MSc, Steadman and Philippon Research Institute
- 3:12 pm-3:16 pm 173 - Donor Site Morbidity at Six Months Following ACL Autograft Harvest
LT Andrew J. Recker, MD, Wake Forest School of Medicine
- 3:16 pm-3:20 pm 386 - Suture Anchor vs. Transtibial Repair for Meniscal Root Tears
LT (Ret.) Taylor Calibo, BS, MSc, Steadman and Philippon Research Institute
- 3:20 pm-3:24 pm 33 - Body Mass Index Not Associated with Risk of Revision Anterior Cruciate Ligament Reconstruction Failure
George D. Graham, MD, Atrium Health Carolinas Medical Center
- 3:24 pm-3:30 pm Discussion

Rapid Fire Sessions 3E – Trauma *(Sun Down)*

Moderators: MAJ Michael M. Polmear, MD, *William Beaumont Army Medical Center*

- 2:30 pm-2:34 pm 376 - A Novel Method of Estimating Distal Tibial Interlocking Screw Length
Douglas Zhang, BA, University of Chicago Pritzker School of Medicine
- 2:34 pm-2:38 pm 145 - Evaluating Web-Based Septic Arthritis Calculator in Urban Trauma Settings
Ryan Serbin, MD, Atrium Health Musculoskeletal Institute

2:38 pm-2:42 pm	224 - Clavien-Dindo Classification Scale for Complications Following Hip Fractures <i>CPT Matthew W. Feldman, MD, Madigan Army Medical Center</i>
2:42 pm-2:46 pm	284 - Talus Fractures with Extrusion Have High Rate of Long-Term Complications <i>Capt Abby Viglione, MD, Travis Air Force Base/University of California Davis</i>
2:46 pm-2:50 pm	322 - Migration-Related Vehicular Pursuits: An Assessment of the Orthopaedic Healthcare Burden <i>CPT David Fogg, MD, William Beaumont Army Medical Center</i>
2:50 pm-2:54 pm	348 - Modified CT Sagittal Measure for Posterior Wall Acetabulum Fractures <i>LT Nicholas M. Panarello, MD, Walter Reed National Military Medical Center</i>
2:54 pm-3:00 pm	Discussion
3:00 pm-3:04 pm	377 - Patient Adherence to VTE Prophylaxis Following Major Extremity Trauma <i>Douglas Zhang, BA, University of Chicago Pritzker School of Medicine</i>
3:04 pm-3:08 pm	7 - Predicting Post-Fracture Recovery with Smartphone Mobility Data: A Proof-of-Concept Study <i>CAPT Patrick J. McGlone, MD, Walter Reed National Military Medical Center</i>
3:08 pm-3:12 pm	28 - A Systematic Review on Bioglass for Treating Fractures and Infection <i>Major Henry A. Claireaux, MB, ChB, British Army</i>
3:12 pm-3:16 pm	177 - Loss to Follow-Up after GSW Does Not Impact Pain, Recovery <i>Jennifer Lewis, BA, University of Chicago</i>
3:16 pm-3:20 pm	268 - Training Completion in Marine Recruits with Tibial Stress Fractures <i>LT Kristine M. Oblatz, MD, Naval Medical Center San Diego</i>
3:20 pm-3:24 pm	267 - Functional Outcomes After Tibial Shaft Fractures in Active Duty Service Members <i>CPT Gregory Rummel, MD, USUHS</i>
3:24 pm-3:30 pm	Discussion
3:30 pm-3:40 pm	<i>Refreshment Break (Grand Ballroom Foyer)</i>

Best of SOMOS – Award Presentations

Moderators: Lt Col Aaron E. Barrow, MD, *Eglin Air Force Base*
Maj Stuart J. Davidson, MD, *US Air Force Academy*

- 3:40 pm-3:46 pm **Founders' Award**
52 - PRP vs. Corticosteroid for Glenohumeral OA: Military and Civilian
LT Harrison Diaz, MD, Naval Medical Center San Diego
- 3:46 pm-3:52 pm **Norman T. Kirk Award**
44 - Minor Room, Major Savings?
LT Karolina A. Serhan, MD, Naval Medical Center Portsmouth
- 3:52 pm-3:58 pm **Jamie Dianne Bulken-Hoover Memorial - Best Hand Paper Award**
311 - Glucose Index: A Biomarker for Digit Revascularization and Replantation
Maj Samuel L. Posey, MD, The Curtis National Hand Center
- 3:58 pm-4:04 pm **Best Spine Paper Award**
54 - RCT Spinopelvic Fixation with or without SI Fusion
Jason J. Haselhuhn, DO, University of Minnesota
- 4:04 pm-4:10 pm **Joint Forces Shoulder Instability Award**
90 - Survivability of Latarjet vs. Anterior Glenoid Reconstruction for Shoulder Instability
CPT Michael K. Deegan, MD, MAMC Orthopaedics
- 4:10 pm-4:15 pm Discussion
- Special Session 5 – COL Brian D. Allgood Award**
Moderators: Col. R. Judd Robins, MD, *United States Air Force Academy*
- 4:15 pm-4:25 pm Presentation of Allgood Award
- 4:25 pm-5:15 pm Panel Discussion
Panel: *COL (Ret) Mark P. Pallis, DO, Geisinger Musculoskeletal Institute*
COL (Ret) B. Kyle Potter, MD, University of Pennsylvania
CAPT (Ret) Matthew Provencher, MD, MBA, The Steadman Clinic
Col (Ret) Dean Taylor, MD, Duke University
- 6:00 pm - 6:45 pm **Awards Dinner Reception** (*Grand Ballroom Foyer*)
- 6:45 pm – 9:00pm **Awards Dinner** (*Grand Ballroom Salons A-E*)

Friday, December 12

- 6:00 am-11:15 am **Speaker Ready Room** (*Blue Sky*)
- 6:30 am-11:15 am **Meeting Registration** (*Grand Ballroom Foyer*)

Concurrent Symposium 6A – Spine

Moderator: MAJ Donald R. Fredericks, MD, *Walter Reed National Military Medical*

LTC Keith Lynn Jackson, MD, *Prisma Health Richland Hospital*

7:00 am-7:15 am Return to Duty after Lumbar Disc Herniation and Discectomy
John G. DeVine, MD, Medical College of Georgia at Augusta University

7:15 am-7:30 am Spine Presentation
John France, MD, West Virginia University

Concurrent Symposium 6B – Pediatrics (*Colorado Ballroom Salon 2*)

Moderator: LCDR Kimberly Spahn, MD, *Naval Medical Center San Diego*

7:00 am-7:15 am Patellar Instability in the Skeletally Immature: Management Pearls and
Lessons Learned from the Jupiter Study Group
Shital Parikh, MD, Cincinnati Children's Hospital

7:15 am-7:30 am Staying out of Trouble with Pediatric Emergencies
Matthew R. Schmitz, MD, Rady Children's Hospital

Concurrent Session 6A – Spine

Moderators: John G. DeVine, MD, *Medical College of Georgia at Augusta University*
John France, MD, *West Virginia University*
MAJ Donald R. Fredericks, MD, *Walter Reed National Military Medical*
LTC Keith Lynn Jackson, MD, *Prisma Health Richland Hospital*

7:30 am-7:36 am 24 - Sagittal Balance Following Thoracolumbar Anterior Vertebral Body
Tethering
*CPT Connor Zale, MD, University of Pennsylvania/ Shriners Hospital for
Children- Philadelphia*

7:36 am-7:42 am 39 - Use of Nutritional Supplements Post-Spine Surgery to Enhance
Healing: A Retrospective Cohort Study
Rafael A. Garcia, BS, University of Minnesota

7:42 am-7:48 am 232 - Risk Factors for Revision Microdiscectomy: A Matched Cohort
Analysis
CPT Cody D. Schlaff, MD, Walter Reed National Military Medical Center
**Presented by Matthew M. O'Hara, MD*

7:48 am-7:57 am Discussion

7:57 am-8:03 am 23 - When is a VBT in a Patient with an Open Tri-Radiate Cartilage a
Good Idea?
*CPT Connor Zale, MD, University of Pennsylvania/ Shriners Hospital for
Children- Philadelphia*

8:03 am-8:09 am 194 - The Effects of Modified Cervical Laminoplasty with C3
Laminectomy on Motion and Stability
LT Richard C. Lee, MD, Walter Reed National Military Medical Center

8:09 am-8:15 am 50 - ALIF Restores LDI vs. TLIF in Low-Grade Spondylolithesis

Capt Brooke A Smith, MD, Wright Patterson Medical Center

8:15 am-8:21 am 162 - Long-Term Cumulative Incidence of Cervical Myopathy Following Geriatric Fragility Fractures
LT Nicholas M. Panarello, MD, Walter Reed National Military Medical Center

8:21 am-8:30 am Discussion

Concurrent Session 6B – Pediatrics (*Colorado Ballroom Salon 2*)

Moderators: Shital Parikh, MD, *Cincinnati Children's Hospital*
 Matthew R. Schmitz, MD, *Rady Children's Hospital*
 LCDR Kimberly Spahn, MD, *Naval Medical Center San Diego*

7:30 am-7:36 am 135 - DF2 Brace vs. Spica Cast for Pediatric Femoral Shaft Fractures
George D. Graham, MD, Atrium Health Carolinas Medical Center

7:36 am-7:42 am 239 - Pediatric Femur Fractures: Does Time to Operating Room Affect Outcomes?
LT Andrew J. Rosso, MD, Naval Medical Center San Diego

7:42 am-7:48 am 214 - Radial Styloid vs. Listerís Tubercle Entry in Pediatric Radial Fractures
2LT Dalton J. Ennis, BS, Saint Louis University School of Medicine

7:48 am-7:57 am Discussion

7:57 am-8:03 am 319 - Artificial Intelligence vs. Expert Responses to FAQs about DDH
2LT Dalton J. Ennis, BS, Naval Medical Center San Diego

8:03 am-8:09 am 161 - Physeal-Sparing Tibial Nailing: Surgical Technique Considerations
LT Vaughn Land, MD, Naval Medical Center Portsmouth

8:09 am-8:15 am 251 - Skin Complications of Exofin Tissue Adhesive in Pediatric Orthopedic Surgery
CPT Riley S. Frenette, DO, Madigan Army Medical Center

8:15 am-8:21 am 243 - The Psychological Effects of Open Fractures in Pediatric Populations: A Systematic Review
Albert K. Sarpong, BS, Tilman J. Fertitta Family College of Medicine at the University of Houston

8:21 am-8:30 am Discussion

Concurrent Panel Discussion 6A – Spine

Moderator: MAJ Donald R. Fredericks, MD, *Walter Reed National Military Medical*
 LTC Keith Lynn Jackson, MD, *Prisma Health Richland Hospital*

8:30 am-9:00 am Panel Discussion

Panel: *John G. DeVine, MD, Medical College of Georgia at Augusta University*
John France, MD, West Virginia University

Concurrent Panel Discussion 6B – Pediatrics (*Colorado Ballroom Salon 2*)

Moderator: LCDR Kimberly Spahn, MD, *Naval Medical Center San Diego*

8:30 am-9:00 am Panel Discussion

Panel: *Shital Parikh, MD, Cincinnati Children's Hospital*
Matthew R. Schmitz, MD, Rady Children's Hospital

9:00 am-9:15 am Refreshment Break (*Grand Ballroom Foyer*)

Symposium 7 – Sports Hip / Hip Preservation

Moderator: Nicholas P. Lopreiato, MD, *Walter Reed National Military Medical Center*

9:15 am-9:45 am From an Interest to ANCHOR: Building a Hip Preservation Service Line
Matthew R. Schmitz, MD, Rady Children's Hospital

General Session 7 – Sports Hip / Hip Preservation

Moderators: Matthew R. Schmitz, MD, *Rady Children's Hospital*
Nicholas P. Lopreiato, MD, *Walter Reed National Military Medical Center*

9:45 am-9:51 am 182 - Hip Arthroscopy in Military Personnel Produces Outcomes Similar to Civilian Series
LT Samuel W. Todd, MD, Naval Medical Center Portsmouth

9:51 am-9:57 am 277 - Ultrasound-Guided Hip Platelet-Rich Plasma Injection in the Sports Medicine Clinic
Col. R. Judd Robins, MD, United States Air Force Academy

9:57 am-10:03 am 113 - Outcomes of Labral Repair vs. Reconstruction in Primary Hip Arthroscopy
LT Kyle P. Messer, DO, Texas Tech University Health Science Center

10:03 am-10:09 am 190 - Periacetabular Osteotomy Nonunion Rates and Risk Factors in Pediatric Patients
LT Janse Schermerhorn, MD, Walter Reed National Military Medical Center

10:09 am-10:15 am Discussion

10:15 am-10:21 am 323 - Effects of Hip Arthroscopy on Gait, Functional Performance, and Patient-Reported Outcomes in Military Service Members
CDR Brian T. Barlow, MD, Naval Hospital Rota

10:21 am-10:27 am 351 - AI Answering FAI Patient Questions: Helpful Tool or Harmful Risk?
LCDR William Ferris, MD, Naval Medicine Center San Diego

10:27 am-10:33 am 339 - Femoroacetabular Impingement: Return to Duty Rates and Postoperative Outcomes
CPT Alexys Bermudez, MD, Tripler Army Medical Center

10:33 am-10:39 am 313 - Impact of Valsartan and Doxycycline on Hip Arthroscopy Outcomes
ENS Heather MacEwen, BS, Uniformed Services University of the Health Sciences

10:39 am-10:45 am Discussion

Panel Discussion 7 - Sports Hip / Hip Preservation

Moderator: Nicholas P. Lopreiato, MD, *Walter Reed National Military Medical Center*

10:45 am-11:15 am Panel Discussion
Panel: *Matthew R. Schmitz, MD, Rady Children's Hospital*

2025 SOMOS E-Poster Presentations

Foot & Ankle

280 - Who is Fixing Calcaneus Fractures and What are Their Outcomes and Trends?

CPT James A. Albright, MD, ScM, Brooke Army Medical Center

125 - Utilization of Coban Wrapping in Diagnosis of Ankle Syndesmosis Injury

CPT Brandon H. Chung, DO, William Beaumont Army Medical Center

346 - 10-Year Review of Lisfranc Injury Management: ORIF vs. Arthrodesis

CAPT Manuela Gaviria, MS, MD, BAMC

139 - Do They All Need Surgical Debridement?: Infection in Ankle Fractures

LCDR Nicholas Healy, MD, Naval Medical Center San Diego

255 - A Comparison of Push-Off and Gait Strength following Open Haglund Resection vs.

Percutaneous Zadek Osteotomy for Insertional Achilles Tendinopathy

CPT Sarah Hall Kiriluk, MD, Walter Reed National Military Medical Center

256 - Patient Reported Outcome Measures and Complication Rates after Minimally Invasive vs. Open Calcaneal Osteotomy.

CPT Sarah Hall Kiriluk, MD, Walter Reed National Military Medical Center

261 - The Effect of BMI on Outcomes, Complications, and Union Rate following Midfoot and Hindfoot Arthrodesis Procedures

CPT Sarah Hall Kiriluk, MD, Walter Reed National Military Medical Center

262- The Effect of Allograft vs. Autograft and BMI on Outcomes, Complications, and Union Rate following Midfoot Arthrodesis Procedures

CPT Sarah Hall Kiriluk, MD, Walter Reed National Military Medical Center

266 - Evaluation of Minimally Invasive Hindfoot Nails for the Treatment of Complex and Fragility Acute Ankle Fractures

CPT Sarah Hall Kiriluk, MD, Walter Reed National Military Medical Center

273 - Shot Liposomal Bupivacaine vs. Continuous Catheter-Based Analgesia for Postoperative Pain Management in Foot Surgery: A Retrospective Analysis

CPT Sarah Hall Kiriluk, MD, Walter Reed National Military Medical Center

22 - Endoscopic Flexor Hallucis Longus Transfer: An Anatomic Critical Review

Luke M. Martin, Ohio State University Wexner Medical Center

167 - Evaluating Postoperative Complications in Bioabsorbable vs. Metallic Syndesmotomic Fixation

Micah Ngatuvai, MD, MBA, TUHSC/WBAMC

168 - Deltoid Ligament Repair in Ankle Fractures: A Systematic Review

Micah Ngatuvai, MD, MBA, TUHSC/WBAMC

362 - Publishing on Topical Subjects in Total Ankle Arthroplasty is Associated with Increased Social Media Attention

Albert K. Sarpong, BS, Tilman J. Fertitta Family College of Medicine at the University of Houston

Other

163 - Osteochondral Allograft Transplantation for Focal Chondral Loss of the Knee

Devin Potter, BS, Wellstar Kennestone Regional Medical Center

Practice Management/Education

12 - Prognostic Factors for Outcomes After Femoral Fracture or Hip Arthroplasty

2LT Zachary A. Blashinsky, BS, Florida International University Herbert Wertheim College of Medicine

69 - Standardized Approach to Postoperative Urinary Retention in Orthopaedics

LT Evan D. Crawford, DO, Naval Medical Center Portsmouth

307 - Trends in Resident Hobbies by Specialty

CPT Donielle Miller-Hesse, DO, William Beaumont Army Medical Center

Shoulder & Elbow

246 - Maintaining Glenoid Augment Rotation is Critical to Preserving Backside Contact

MAJ Michael Baird, MD, Brooke Army Medical Center

101 - Impact of Glove Sterility on Corticosteroid Shoulder Injections

2nd LT Sydney R. Flanagan, BS, Loyola University Medical Center

365 - Hydrophilic vs. Non-Hydrophilic Sutures: A Biomechanical Comparison

2nd LT Sydney R. Flanagan, BS, Loyola University Medical Center

148 - A Systematic Review of Cost-Effectiveness Analyses in Sports Medicine Part I: Shoulder and Elbow

CPT Patrick C. Mayolo, MD, Tripler Army Medical Center

84 - Pre-Operative Cervical Radiculopathy Portends Worse Outcomes Following Total Shoulder Arthroplasty in a Rural Center

Matthew W. Parry, MD, MS, Geisinger

382 - Biomechanical Evaluation of the “Double-Double-Row” Supraspinatus Repair Technique

Tyler Perleberg, BS, Steadman Philippon Research Institute

15 - Minimal Improvements in Objective Shoulder Strength following Shoulder Arthroplasty: A Systematic Review

Capt Natalia Pluta, MD, MS, Brooke Army Medical Center

355 - Excellent Outcomes after Combined Tibiofibular Joint and Lateral Collateral Ligament Reconstruction

CAPT (Ret) Matthew Provencher, MD, MBA, The Steadman Clinic

347 - Arthroscopic-Assisted Coronoid Fracture Fixation: Technique and Outcome
LT Christopher Sullivan, MD, MBA, Naval Medical Center San Diego

197 - Dynamic Anterior Stabilization is Anatomically Feasible in the Vast Majority of Anterior Shoulder Instability Cases: An MRI Analysis
Capt Patrick J. Tansey, MD, University of Texas Medical Branch

104 - Survivorship, Complications, and Outcomes of Custom Glenoid Implants in rTSA
Jacques Van Zyl, BS, University of Alabama at Birmingham

Sports Injuries

192 - Patient-Reported Outcomes and Satisfaction Following Fasciotomy for Chronic Exertional Compartment Syndrome
Justin J. Ernat, MD, University of Utah Health

126 - Upper Extremity Fracture Types in NFL Athletes and Military Personnel
Brandon Mines, MD, Activ Armor
**Presented by Amanda Harding, MD*

343 - Anterior vs. Posterior Approach to Femoral Condyle for Chondral Restoration
MAJ Patrick K. Mescher, MD, MBA, Keller Army Community Hospital

379 - Impact of Tibial Slope Asymmetry on ACL Graft Biomechanics
Tyler Perleberg, BS, Steadman Philippon Research Institute

380 - Knotted vs. Knotless Suture Bridge Repair of Proximal Rectus Femoris
Tyler Perleberg, BS, Steadman Philippon Research Institute

383 - Achilles Tendon vs. Distal Hamstring Grafts for Chronic Hamstring Repair
Tyler Perleberg, BS, Steadman Philippon Research Institute

152 - A Systematic Review of Cost-Effectiveness Analyses in Sports Medicine Part II: Hip and Knee
CPT James Pruneski, MD, Tripler Army Medical Center

233 - Epidemiologic Trends of Upper Extremity Weightlifting Injuries by Age Groups
ENS Jackson Underhill, BS, BA, University of Hawaii John A Burns School of Medicine

Trauma

31 - One Out of Twelve Patients with Multiligament Knee Injuries Will Need Operative Treatment of a Lower Extremity or Pelvic Fracture
Justin J. Ernat, MD, University of Utah Health

234 - Flexible Intramedullary Nailing in Adult Both Bone Forearm Fractures
CPT Bonamico Jacobs, MD, Dwight D. Eisenhower Army Medical Center, Orthopaedic Surgery

134 - TENS for Pain Alleviation in Perioperative Orthopaedic Trauma Patients
Laurence B. Kempton, MD, Atrium Health Carolinas Medical Center Orthopaedic Surgery

154 - Weather is Correlated with Trauma Admission and Injury Mechanism
Jennifer Lewis, BA, University of Chicago

131 - TENS for Perioperative Pain Alleviation in Low-Energy Geriatric Fractures
MAJ (Ret) Brian P. Milam, MD, Atrium Health Carolinas Medical Center

373 - Occult Vascular Injury Rate in High-Energy Tibial Plateau Fractures
Douglas Zhang, BA, University of Chicago Pritzker School of Medicine

374 - Underbilling of Non-Operative Fracture Care is Common in Orthopedic Polytrauma
Douglas Zhang, BA, University of Chicago Pritzker School of Medicine

War Trauma/Military Medicine

228 - Tourniquet Syndrome

Mykyta Tomilin, MD, Dnipropetrovsk Regional Clinical Hospital named after I.I. Mechnykov