

**SOMOS Scientific Program
December 13-17, 2021
Alpine Ballroom AB
The Resort at Squaw Creek
Olympic Valley, CA**

Monday, December 13

- 8:00 am – 4:00 pm **SOMOS Pre-Course Arthroplasty Lab** (*Alpine Ballroom B*)
- 12:00 pm-5:00 pm **Board of Directors Meeting** (*Tinker's Knob*)
- 12:00 pm-5:00 pm **Meeting Registration** (*Grand Sierra Ballroom Pre-Function Area*)
- 12:00 pm-11:59 pm **Speaker Ready Area** (*Grand Sierra Ballroom Pre-Function Area*)
- 5:30 pm-6:30 pm **Sponsor Reception** (*Granite Chef*)
- 6:30 pm-9:00 pm **Welcome Dinner with Exhibitors** (*Grand Sierra Ballroom*)

Tuesday, December 14

- 12:00 am-11:59 pm **Speaker Ready Area** (*Grand Sierra Ballroom Pre-Function Area*)

Opening Ceremony

Moderators: LTC Jonathan F. Dickens, MD, *Walter Reed National Military Medical Center*
 LTC Jeanne C. Patzkowski, MD, *Brooke Army Medical Center*
 MAJ John C. Dunn, MD, *William Beaumont Army Medical Center*

- 7:00 am-7:10 am Welcome & Announcements
- 7:10 am-7:20 am Report of SOMOS President
 LTC Jonathan F. Dickens, MD, Walter Reed National Military Medical Center

Symposium 1 – Trauma

Moderator: LCDR Christopher H. Renninger, MD, *Walter Reed National Military Medical Center*

- 7:20 am-7:45 am Changing Paradigms in Modern Orthopaedic Trauma
 Mark A. Lee, MD, University of California, Davis
- 7:45 am-7:50 am Discussion

General Session 1 – Trauma

Civilian Moderator: Mark A. Lee, MD, *University of California, Davis*
Military Moderator: LCDR Christopher H. Renninger, MD, *Walter Reed National Military Medical Center*

- 7:50 am-7:55 am 121 - Elective Amputation for Chronic Regional Pain Syndrome: A Reasonable Option?
LT Benjamin W. Hoyt, MD, Walter Reed National Military Medical Center
- 7:55 am-8:00 am 123 - Osteoporosis Treatment Decreases the Risk of Subsequent Fracture in Osteoporotic Hip Fracture Patients
Brian K. Burke, DO, Eisenhower Army Medical Center
- 8:00 am-8:05 am 112 - Internal Joint Stabilizer of the Elbow for Unstable Fracture Dislocations: A New Solution
LCDR John L. Eakin, MD, Parkland Memorial Hospital, UT Southwestern Medical Center
- 8:05 am-8:10 am 53 - Occupational Radiation Exposure during Intraoperative 3-Dimensional Fluoroscopy in Pelvis and Acetabular Surgery
LCDR Michelle M. Gosselin, MD, University of Texas Health Science Center at Houston
**Presented by Michael A. Kutzler, MS*
- 8:10 am-8:15 am 36 - The Utility of a Hyperinlet View in the Posterior Fixation of Pelvic Ring Injuries
LCDR Michelle M. Gosselin, MD, University of Texas Health Science Center at Houston
- 8:15 am-8:23 am Discussion
- 8:23 am-8:28 am 193 - Evaluation of Biopsychosocial Factors Impacting Recovery in the Orthopaedic Trauma Clinic
Capt Mikalyn T. DeFoor, MD, Brooke Army Medical Center
**Presented by Lydia Kore, MD*
- 8:28 am-8:33 am 249 - Gender Representation at the Podium at the Society of Military Orthopaedic Surgeons (SOMOS) Annual Meeting
CPT Marcus Hoof, MD, San Antonio Military Medical Center
- 8:33 am-8:38 am 207 - Blasting BMAC: A Novel Therapy to Heal Combat Fractures
MAJOR Sarah K. Stewart, MBChB, BMedSci (Hons), Imperial College London
- 8:38 am-8:43 am 136 - Consequences of Non-Adherence to Evidence-Based Guidelines for Preoperative Echocardiogram
Capt Erin R. Swan, MD, San Antonio Military Medical Center
- 8:43 am-8:50 am Discussion
- 8:50 am-9:10 am *Break with Exhibitors (Grand Sierra Ballroom)*
- Special Presentation 1 – Humanitarian and Deployment Medicine**
Moderator: Maj Sarah N. Pierrie, MD, *Brooke Army Medical Center*
- 9:10 am-9:55 am Logistics and Planning Military/Humanitarian Missions

Julia Nuelle, MD, University of Missouri

Engaging in Humanitarian Missions with Existing Organizations and
Establishing Mission Opportunities

Barry Gainor, MD, University of Missouri

Deployment Medicine: Challenges and Opportunities

Benjamin Plucknette, DO, San Antonio Military Medical Center

Symposium 2 – Foot & Ankle

Moderator: MAJ Kenneth Heida, DO, *Tripler Army Medical Center*

9:55 am-10:20 am The Revolution of 3D Printing in Orthopaedic Surgery
Samuel Adams Jr., MD, Duke University Medical Center (confirmed)

10:20 am-10:25 am Discussion

10:25 am-10:45 am Break with Exhibitors (Grand Sierra Ballroom)

General Session 2 – Foot & Ankle

Civilian Moderator: Samuel Adams Jr., MD, *Duke University Medical Center (confirmed)*

Military Moderator: MAJ Kenneth Heida, DO, *Tripler Army Medical Center*

10:45 am-10:50 am 74 - Return to Duty following Hallux Valgus Correction in an Active Duty
Servicemembers
Capt Paul Schroeder, MD, Brooke Army Medical Center

10:50 am-10:55 am 126 - Structural Allograft Transplantation for Osteochondral Lesions of
the Talar Shoulder
ENS USNR Lindsey Johnson, MBA, BS, Duke Orthopaedics

10:55 am-11:00 am 81 - Outcomes following Modified Brostrom with vs. without Peroneal
Tendon Exploration
CPT Jordan B. Damschen, DO, Madigan Army Medical Center

11:00 am-11:05 am 260 - Tibiotalar Contact Pressures and Torsional Stability following
Syndesmosis and Deltoid Ligament Injury and Repair
LT Alexander Lundy, MD, Walter Reed National Military Medical Center

11:05 am-11:10 am 97 - Correlation of Stress Radiographs to Injuries Associated with Ankle
Instability
CPT Andrew J. Lopez, MD, Tripler Army Medical Center

11:10 am-11:15 am Discussion

11:15 am-11:20 am 221 - Systematic Review of Return to Driving after Elective Foot and
Ankle Surgery
LT Alexander Lundy, MD, Walter Reed National Military Medical Center

11:20 am-11:25 am 164 - Real-World Study of EXOGEN to Mitigate Fifth Metatarsal Fracture
Non-Union
Robert Zura, MD, Exponent

- 11:25 am-11:30 am 18 - Does Syndesmosis Screw Breakage Affect Patient Outcomes? A Retrospective Comparative Study
Josh W. Vander Maten, MS, MA, BS, University of Toledo College of Medicine
- 11:30 am-11:35 am 219 - Intraoperative Indocyanine Green-Based Dynamic Contrast-Enhanced Fluorescence Imaging Can Effectively Quantify Bone Perfusion
NH Ida Leah L. Gitajn, MD, MS, Dartmouth-Hitchcock Medical Center
- 11:35 am-11:40 am 250 - Gender Representation at the Podium at the American Orthopaedic Foot and Ankle Society (AOFAS) Annual Meeting: A Ten-Year Review
CPT Marcus Hoof, MD, San Antonio Military Medical Center
- 11:40 am-11:45 am Discussion
- 11:45 am-12:45 pm **Focused Lunch Presentations** (*Silver Peak, Papoose Peak, Emigrant Peak A, Emigrant Peak B*)
- 1:00 pm-2:00 pm **Scientific E-Poster Session** (*Emigrant Peak A, Emigrant Peak B, Pyramid Peak, Castle Peak*)
(Presenters will be available to answer questions)
- 2:00 pm-3:00 pm **Multimedia Education Session** (*Grand Sierra Ballroom Pre-Function Area*)
- 3:00 pm -3:10 pm **Special Update: DRC/COTS**
LTC Daniel J. Stinner, MD, Fort Campbell
LCDR Christopher H. Renninger, MD, Walter Reed National Military Medical Center

Panel Discussion 1 – Transition to Civilian Practice

Moderator: MAJ Daniel Derosa, MD, *Womack Army Medical Center*

- 3:15 pm-4:00 pm Panel: *James A. Blair Jr., Medical College of Georgia at Augusta*
Brian F. Grogan, MD, University of Wisconsin
Rey Gumboc, MD, Kaiser Permanente
Daniel Possley, DO, MS, Cornerstone Orthopedics

4:00 pm-4:20 pm *Break with Exhibitors (Grand Sierra Ballroom)*

Rapid Fire Session 1A – Adult Reconstruction / Arthroplasty (Emigrant Peak A)

Moderators: LTC Sean P. Kearney, MD, MPH, *Dwight D. Eisenhower Army Medical Center*
MAJ Peter Formby, MD, *Carl R. Darnall Army Medical Center*

- 4:20 pm-4:24 pm 70 - Impact of Increased Age on Outcomes of Cementless Total Knee
CPT Erickson Andrews, MD, Henry Ford Health System
- 4:24 pm-4:28 pm 189 - TSA vs. RSA for Walch B2 Glenoid Management: A Systematic Review and Meta-Analysis
CPT Kyle S. Ardavanis, MD, Madigan Army Medical Center

- 4:28 pm-4:32 pm 175 - Running following Hip Arthroplasty: A Systematic Review
CPT Colin Harrington, MD, Walter Reed National Military Medical Center
**Presented by Andrew D. Lachance, BS*
- 4:32 pm-4:36 pm 64 - Patient-Specific Cup Placement in Total Hip Arthroplasty Patients with Stiff or Fused Lumbar Spines
Lt. Col. William R. Howarth, MD, New England Baptist Hospital
- 4:36 pm-4:40 pm 154 - Depression is Not a Contraindication for Total Joint Arthroplasty: Systematic Review
Capt Jack McKeon, MD, Ohio State University
- 4:40 pm-4:48 pm Discussion
- 4:48 pm-4:52 pm 228 - Common Peroneal Nerve Analgesia Considerations During Knee Posterolateral Corner Reconstruction
Ryan Price, MS, University of New Mexico
- 4:52 pm-4:56 pm 182 - The Shift to Same-Day Shoulder Arthroplasty
2LT Alexis B. Sandler, George Washington University
- 4:56 pm-5:00 pm 124 - Total Shoulder Arthroplasty: Opioids in the Early Postoperative Period
2LT Alexis B. Sandler, George Washington University
- 5:00 pm-5:04 pm 266 - Piriformis Syndrome in an Air Force Pilot Treated Operatively: A Case Report and Literature Review
LCDR John S. Donoughe, DO, MPAS, Naval Medical Center San Diego
- 5:04 pm-5:08 pm 159 - Systematic Review of Irrigation Solution in Acute Peri-Prosthetic Joint Infections
CPT Gabriel Mason, MD, Brooke Army Medical Center
- 5:08 pm -5:12 pm 158 - Expanding Technology's Role in Lower Extremity Arthroplasty Rehabilitation: A Systematic Review
Capt Jack Mckeon, MD, Ohio State University
- 5:12 pm-5:20 pm Discussion

Rapid Fire Session 1B – Hand (Emigrant Peak B)

Moderators: LTC David J. Wilson, MD, *San Antonio Military Medical Center*
MAJ James B. Deal Jr., MD, *Walter Reed National Military Medical Center*

- 4:20 pm-4:24 pm 114 - Cost Analysis of Single vs. Double Incision Distal Biceps Repair
CPT Daniel J. Cognetti, MD, Brooke Army Medical Center
- 4:24 pm-4:28 pm 5 - Surgical Elbow Dislocation: Technique and Comparative Outcomes
LT Benjamin W. Hoyt, MD, Walter Reed National Military Medical Center
**Presented by CPT DesRaj M. Clark, MD*

- 4:28 pm-4:32 pm 66 - Ten-Year Trends in Level of Evidence in Hand Surgery
Reid E. Tompkins, MD, William Beaumont Army Medical Center
- 4:32 pm-4:36 pm 259 - Primary Repair of Distal Biceps Tendon Rupture: High
Complication Rate with an Overall Successful Return to Duty
CPT Anthony J. Magee, MD, Tripler Army Medical Center
**Presented by*
- 4:36 pm-4:40 pm 132 - Treatment Trends, Complications, and Prevalence of Olecranon
Fractures
Reid E. Tompkins, MD, William Beaumont Army Medical Center
- 4:40 pm-4:50 pm Discussion
- 4:50 pm-4:54 pm 186 - Hidradenocarcinoma of the Palm: A Case Report
CPT Connor Zale, MD, Tripler Army Medical Center
- 4:54 pm-4:58 pm 179 - Management of Sublime Tubercle Injuries in Adolescents: Hints of a
Classification Scheme
LT Sarah A. Fogleman, MD, Naval Medical Center San Diego
- 4:58 pm-5:02 pm 57 - Biomechanical Comparison of Anatomic Restoration of the Ulnar
Footprint vs. Traditional Ulnar Tunnels in Ulnar Collateral Ligament
Reconstruction
Anthony Le, MS, Walter Reed National Military Medical Center
- 5:02 pm-5:06 pm 195 - Analysis of the Most Cited Papers Regarding Pediatric
Supracondylar Humerus Fractures
CPT Joshua C. Tadlock, MD, William Beaumont Army Medical Center
- 5:06 pm-5:10 pm 223 – Ultrasound-Guided Sternoclavicular Joint Injection: Technique and
Case Series
Gregory E. Lause, MD, Tripler Army Medical Center
- 5:10 pm-5:20 pm Discussion

Rapid Fire Session 1C – Trauma (Pyramid Peak)

Moderators: COL Kenneth J. Nelson, MD, *Womack Army Medical Center*
MAJ P. Christopher Johnson, MD, *San Antonio Military Medical Center*

- 4:20 pm-4:24 pm 144 - Effect of a Proprietary Acetic Acid, Ethanol, Benzalkonium
Chloride-Based Irrigant Solution on Suture Strength: A Biomechanical
Study
*CPT Courtney N. Wolfley, DO, Dwight D. Eisenhower Army Medical
Center*
- 4:24 pm-4:28 pm 248 - Global Military and Civilian Trauma Systems Integration: An
Orthopedic Perspective
CPT Michael Baird, MD, Walter Reed National Military Medical Center
- 4:28 pm-4:32 pm 213 - Tibia Only Amputation Salvage for Complex Lower Extremity
Trauma

COL B. Hudson Berrey, MD, University of Florida, Jacksonville

- 4:32 pm-4:36 pm 150 - Differences in the Treatment of Distal Femur Fractures
CPT Tyler Nicholson, MD, William Beaumont Army Medical Center
- 4:36 pm-4:40 pm 265 - Variations in Reimbursement for Orthopaedic Trauma Procedures
Jeff Jones, MD, MEng, Texas Tech University, El Paso
- 4:40 pm-4:44 pm 39 - Impact of Pre-Deployment Course Change on Deployed Orthopaedic Surgeries, 2012-2019
MAJ Garrett Latham, PA-C, DSc, Tripler Army Medical Center
- 4:44 pm-4:50 pm Discussion
- 4:50 pm-4:54 pm 50 - Postinjury Multimorbidity among United States Military Personnel with Combat-Related Amputation
Andrew MacGregor, PhD, MPH, Naval Health Research Center
- 4:54 pm-4:58 pm 143 - Characteristics of Amputations with Burns during Modern U.S. Military Operations
CPT Emily McDermott, MD, San Antonio Uniformed Services Health Education Consortium
- 4:58 pm-5:02 pm 142 - Performance Outcomes from a Multi-Site, Simulation-Based Course for Maintenance of Procedural Capabilities in Orthopaedic Trauma
LCDR Christopher H. Renninger, MD, Walter Reed National Military Medical Center
- 5:02 pm-5:06 pm 13 - External Fixation of Peri-Prosthetic Tibia Fractures: A Retrospective Comparative Study
Josh W. Vander Maten, MS, MA, BS, University of Toledo College of Medicine
- 5:06 pm-5:10 pm 15 - Percutaneous Screw Fixation of Pubic Symphysis Diastasis: Safe and Effective
LCDR John L. Eakin, MD, Parkland Memorial Hospital, UT Southwestern Medical Center
- 5:10 pm-5:14 pm 180 - Surgically-Treated Femoral Neck Stress Fractures in the Basic Trainee: Is there Consensus for Surgical Intervention?
CPT Joshua K. Hattaway, DO, Dwight D. Eisenhower Army Medical Center
- 5:14 pm-5:20 pm Discussion

Rapid Fire Session 1D – Practice Management (Castle Peak)

Moderators: MAJ Alaina Brelin, MD, *San Antonio Military Medical Center*
MAJ Sean Moroze, MD, *Eglin Air Force Base*

- 4:20 pm-4:24 pm 31 - Opioid Clinical Support Tool: Machine Learning for Prediction of Sustained Opioid Prescriptions

LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center

- 4:24 pm-4:28 pm 187 - The Top Orthopaedic Surgery Influencers on Instagram: A Comparative Analysis
2nd Lt Raul A. Davalos III, BA, Naval Medical Center San Diego
- 4:28 pm-4:32 pm 200 - A Linguistic Analysis of Orthopaedic Surgery Applicant Personal Statements
LCDR John S. Donoughe, DO, MPAS, Naval Medical Center San Diego
- 4:32 pm-4:36 pm 161 - Use of WhatsApp Chat Group to Empower Junior Physicians- Lessons from the IDF Group “Consult an Orthopedic Surgeon”
Capt Gil A. Geva, MD, Israel Defense Force
- 4:36 pm-4:40 pm 11 - Validation of a High-Fidelity Bench Model for Orthopaedic Skill Acquisition
LT Alexander Lundy, MD, Walter Reed National Military Medical Center
**Presented by LT Benjamin W. Hoyt, MD*
- 4:40 pm-4:48 pm Discussion
- 4:48 pm-4:52 pm 194 - Orthopaedic Residency Digital Footprint
LCDR Nicholas Perry, MD, Naval Medical Center San Diego
- 4:52 pm-4:56 pm 6 - Implementation of a Virtual Learning/Simulation Curriculum for Orthopaedic Resident Training
CPT William Roach, MD, Walter Reed National Military Medical Center
- 4:56 pm-5:00 pm 232 - Can our Patients Read Our Patient Resources?
Major Abigail A Johnson, MA (Cantab) MRCS DMCC, University Hospital Southampton
**Presented by Gemma Westcott, BSc, MB, BS*
- 5:00 pm-5:04 pm 87 - Assessing Demographic Representation in Military Orthopaedics
LT Benjamin W. Hoyt, MD, Walter Reed National Military Medical Center
- 5:04 pm-5:08 pm 162 - The Impact of Operating Room Telemonitoring System on OR Utilization
CPT Tyler Nicholson, MD, William Beaumont Army Medical Center
- 5:08 pm-5:12 pm 34 - Sunshine Act in the Dark
Kiya S. Safavi, BS, University of Texas Medical Branch
- 5:12 pm-5:20 pm Discussion
- 6:30 pm-9:00 pm **Commander’s Cup Event – Broom Ball (Montagne)**

Wednesday, December 15

12:00 am-11:59 pm **Speaker Ready Area** (*Grand Sierra Ballroom Pre-Function Area*)

6:00 am-7:00 am **Scientific E-Poster Session** (*Emigrant Peak A, Emigrant Peak B, Pyramid Peak, Castle Peak*)
(Presenters will be available to answer questions)

Concurrent Symposium 3A – Hip

Moderator: LTC E'Stephan J. Garcia, MD, *William Beaumont Army Medical Center*

7:00 am-7:25 am Hip Arthroscopy: Solutions for Inside and Outside the Joint
Guillaume D. Dumont, MD, MBA, University of South Carolina

7:25 am-7:30 am Discussion

Concurrent Session 3A – Hip

Civilian Moderator: Guillaume D. Dumont, MD, MBA, *University of South Carolina*

Military Moderator: LTC E'Stephan J. Garcia, MD, *William Beaumont Army Medical Center*

7:30 am-7:35 am 139 - Hip-Spine Relationship in Femoroacetabular Impingement: Does Hip Arthroscopy Affect Pelvic Mobility?
LT Jessica R. Stambaugh, MD, Naval Medical Center San Diego

7:35 am-7:40 am 212 - PENG Blockade for Perioperative Pain Control during Hip Arthroscopy
Karolina A. Serhan, BA, Walter Reed National Military Medical Center

7:40 am-7:45 am 235 - Arthroscopic Hip Surgery in a Military Population: Patient Reported Outcomes Reliably Improve Over the First Year
LCDR Brian T. Barlow, MD, Naval Medical Center San Diego

7:45 am-7:50 am 199 - Femoroacetabular Impingement in Elite Skiers and Snowboarders: Return to Sport and Outcomes after Hip Arthroscopy
CDR Robert A. Waltz, MD, The Steadman Clinic

7:50 am-7:55 am 239 - Association between Patient Reported Outcomes and Return to Full Active Duty in Arthroscopic Hip Surgery
LT Thomas J. Kelsey, MD, Naval Medical Center San Diego

7:55 am-8:00 am Discussion

8:00 am-8:05 am 59 - Low Return to Active Duty after Hip Arthroscopy: A Prospective Cohort Study
LTC Sean P. Kearney, MD, MPH, Dwight D. Eisenhower Army Medical Center

8:05 am-8:10 am 120 - Diagnostic Injection Response Does Not Correlate with Hip Arthroscopy Outcomes
CPT Joshua K. Hattaway, DO, Dwight D. Eisenhower Army Medical Center

- 8:10 am-8:15 am 128 - Results of Capsular Imbrication for Hip Microinstability during Hip Arthroscopy: An Evaluation of Early Outcomes
Lt. Col. R. Judd Robins, MD, United States Air Force Academy
- 8:15 am-8:20 am 253 - Stress Fractures in the Military Recruit: What's the Cost?
LT Clare E. Griffis, MS, MD, Naval Medical Center Portsmouth
- 8:20 am-8:25 am 88 - Predicting Fragility Fracture Risk Using Opportunistic Computed Tomography Scans
LT Kevin Taniguchi, MD, Naval Medical Center San Diego
- 8:25 am-8:30 am Discussion

Concurrent Symposium 3B – Hand: Jamie Dianne Bulken-Hoover Memorial Hand Session
(Monument Peak)

Moderator: COL Leon Nesti, MD, PhD, *Walter Reed National Military Medical Center*

- 7:00 am-7:25 am Vascularized Cartilage Transfer for Carpal Reconstruction: Will This Modality Survive the Test of Time?
James P. Higgins, MD, Curtis National Hand Center
- 7:25 am-7:30 am Discussion

Concurrent Session 3B – Hand: Jamie Dianne Bulken-Hoover Memorial Hand Session
(Monument Peak)

Civilian Moderator: James P. Higgins, MD, *Curtis National Hand Center*

Military Moderator: COL Leon Nesti, MD, PhD, *Walter Reed National Military Medical Center*

- 7:30 am-7:35 am 79 - Factors Associated with Implant Removal following Metacarpal Fracture Plate Osteosynthesis
Phillip T. Grisdela, MD, Harvard Combined Orthopaedic Residency Program
- 7:35 am-7:40 am 30 - Reimbursement for Complex Carpal Trauma
CPT John P. Scanaliato, MD, William Beaumont Army Medical Center
- 7:40 am-7:45 am 258 - Ulnar Shortening Osteotomy is an Effective Treatment in a High-Demand Athletic Population
CPT Alicia M. Unangst, DO, Tripler Army Medical Center
- 7:45 am-7:57 am Discussion
- 7:57 am-8:02 am 257 - Surgical Intervention for Lateral Epicondylitis is Effective after Failed Conservative Therapy
CPT Alicia M. Unangst, DO, Tripler Army Medical Center
- 8:02 am-8:07 am 98 - Restoration of Strength in Thumb Basal Joint Arthritis: A Prospective Observational Study
Capt Kelly Mead, MD, Dartmouth Hitchcock Medical Center
- 8:07 am-8:12 am 203 - Traumatic Finger Amputations in the US Military

CPT James A. Jordan, MD, William Beaumont Army Medical Center

8:12 am-8:17 am 4 - Long-Term Outcomes of Wrist Sprains in Military Academy Cadets
2LT Alexis B Sandler, George Washington University

8:17 am-8:30 am Discussion

8:30 am-8:50 am *Break with Exhibitors (Grand Sierra Ballroom)*

8:55 am-9:20 am **Business Meeting**
LTC Jonathan F. Dickens, MD, Walter Reed National Military Medical Center

Instructional Course Lecture 1

Moderator: LTC Kevin P. Krul, MD, *Tripler Army Medical Center*

9:25 am-10:10 am Scaphoid Non-Union: Vascularized vs. Non-Vascularized Bone Graft
James P. Higgins, MD, Curtis National Hand Center

10:10 am-10:30 am *Break with Exhibitors (Grand Sierra Ballroom)*

10:30 am-10:40 am **Hand Fellowship Update**
CDR Scott Tintle, MD, Walter Reed National Military Medical Center

Instructional Course Lecture 2

Moderator: LTC Elizabeth Polfer, MD, *William Beaumont Army Medical Center*

10:45 am-11:30 am Point-Counterpoint - Orthoplastic Extremity Salvage and Restoration

A Framework for Optimal Extremity Coverage

CDR Jason M. Souza, MD, Uniformed Services University of the Health Sciences

Orthoplastic Approach, Is It Really Worth the Effort?

CDR Scott Tintle, MD, Walter Reed National Military Medical Center

11:30 am-12:30 pm **Focused Lunch Presentations** (*Silver Peak, Papoose Peak, Emigrant Peak A, Emigrant Peak B*)

12:30 pm-2:00 pm **Scientific E-Poster Session** (*Emigrant Peak A, Emigrant Peak B, Pyramid Peak, Castle Peak*)
(Presenters will be available to answer questions)

2:00 pm-3:00 pm **Multimedia Education Session** (*Grand Sierra Ballroom Pre-Function Area*)

Special Presentation 2 – Biologics

Moderator: MAJ Michael A. Donohue, MD, *Keller Army Community Hospital*

3:00 pm-4:00 pm Biologics: The Current State of the Art
MAJ Travis J. Dekker, MD, Eglin Air Force Base
LCDR Jennifer Smith, MD, Balboa Naval Medical Center

4:00 pm-4:15 pm Refreshment Break (Alpine Ballroom Foyer)

Rapid Fire Session 2A – Hand (Emigrant Peak A)

Moderators: LTC Emily H. Shin, MD, *Madigan Army Medical Center*
LTC Leah M. Triolo, MD, *Carl R. Darnall Army Medical Center*

- 4:15 pm-4:19 pm 105 - Anconeus Fascia Transfer: Landmarks, Isometry, and Strength
MAJ James B. Deal Jr., MD, Walter Reed National Military Medical Center
- 4:19 pm-4:23 pm 183 - Cubital Tunnel Syndrome: Analysis of Patient Factors Related to Management
CPT Mikel Tihista, MD, William Beaumont Army Medical Center
- 4:23 pm-4:27 pm 122 - Proximal Pole Scaphoid Fractures in the Military: Trends in Management
CPT Lauren Kenney, MD, William Beaumont Army Medical Center
- 4:27 pm-4:31 pm 173 - Carpal Tunnel Syndrome: Trends in Treatment
CPT Marc Nicholes, DO, William Beaumont Army Medical Center
- 4:31 pm-4:35 pm 72 - Intramedullary Screw Fixation of Metacarpal and Phalangeal Fractures Safely Allows for Early Motion and Lower Rates of Hardware Removal
MAJ Garrett Latham, PA-C, DSc, Tripler Army Medical Center
- 4:35 pm-4:45 pm Discussion
- 4:45 pm-4:49 pm 93 - Prospective Randomized Controlled Trial Placebo vs. PRP for Wrist Injuries
CPT Michael M. Polmear, MD, William Beaumont Army Medical Center
- 4:49 pm-4:53 pm 48 - Traumatic Finger Amputations Epidemiology and Mechanism of Injury, 2010-2019
CPT Kayleigh Renfro, MD, William Beaumont Army Medical Center
- 4:53 pm-4:57 pm 44 - Predictors of Success following Microvascular Replantation Surgery of the Upper Extremity
CPT Kayla R. Rizzo, DO, William Beaumont Army Medical Center
- 4:57 pm-5:01 pm 20 - The Epidemiology of Hand and Finger Lacerations in Emergency Departments
2LT Alexis B. Sandler, George Washington University
- 5:01 pm-5:05 pm 127 - Fireworks-Related Injuries Presenting to US Emergency Rooms: An Epidemiological Study
Ryan J. Bickley, MD, Tripler Army Medical Center
- 5:05 pm-5:15 pm Discussion

Rapid Fire Session 2B – Trauma (Emigrant Peak B)

Moderators: MAJ Tuesday F. Fisher, MD, *EACH*
MAJ Matthew Laughlin, MD, *Fort Hood*

- 4:15 pm-4:19 pm 217 - Incidence of Deep Vein Thrombosis (DVT) in Patients Using a Knee Scooter
Capt Stuart J. Davidson, MD, San Antonio Military Medical Center
- 4:19 pm-4:23 pm 241 - Correlation between Resiliency and Patient-Reported Outcome Measures
MAJ Sally Corey, DO, Keller Army Community Hospital
- 4:23 pm-4:27 pm 60 - Barbed Femoral Nailing System for Isolated Intertrochanteric Femur Fractures
LT Benjamin W. Hoyt, MD, Walter Reed National Military Medical Center
- 4:27 pm-4:31 pm 61 - Barbed Femoral Nailing System for Isolated Femoral Neck Fractures
LT Benjamin W. Hoyt, MD, Walter Reed National Military Medical Center
**Presented by LT Shane Kaplan, MD*
- 4:31 pm-4:35 pm 145 - Talar Neck ORIF Through a Single Lateral Incision: Case Series
CPT Jacob M. Arthur, MD, Tripler Army Medical Center
- 4:35 pm-4:39 pm 229 - Pertrochanteric Hip Fracture Charges in the State of Texas
Joshua E. Simson, MD, Texas Tech University Health Science Center
- 4:39 pm-4:45 pm Discussion
- 4:45 pm-4:49 pm 177 - Trends in Management of Proximal Humerus Fractures over the Last Decade
CPT Kyle J. Klahs, DO, William Beaumont Army Medical Center
- 4:49 pm-4:53 pm 245 - The Role of Deployed US Orthopaedic Surgeons on Modern Battlefields
2nd Lt Kaitlin S. Porter, Uniformed Services University of the Health Sciences
**Presented by ENS John W. Cook, BS*
- 4:53 pm-4:57 pm 75 - Intraosseous Administration of Freeze-Dried Plasma in the Prehospital Setting
Captain Mor Rittblat, MD, Israel Defense Forces
- 4:57 pm-5:01 pm 94 - Gunshot Orthopaedic Injuries: Evaluation of National Electronic Injury Surveillance System
CPT Michael M. Polmear, MD, William Beaumont Army Medical Center
- 5:01 pm-5:05 pm 157 - Biomechanical Validation of the Field-Expedient Pelvic Splint
LT Jonathan C. Savakus, MD, Vanderbilt University Medical Center
- 5:05 pm-5:09 pm 264 - Long-Term Health Outcomes of Limb Salvage vs. Amputation for Combat-Related Trauma

LT Jordan Tropp, MD, Walter Reed National Military Medical Center

5:09 pm-5:15 pm Discussion

Rapid Fire Session 2C – Upper Extremity (Pyramid Peak)

Moderators: LTC Joseph W. Galvin, DO, *Madigan Army Medical Center*
CDR Andrew Hurvitz, MD, *Balboa Naval Medical Center*

- 4:15 pm-4:19 pm 117 - High Failure Rates after Posterior Glenoid Augmentation: A Systematic Review
CPT Daniel J. Cognetti, MD, Brooke Army Medical Center
- 4:19 pm-4:23 pm 51 - Arthroscopic Rotator Cuff Repair: Opioids in the Early Postoperative Period
2LT Alexis B. Sandler, George Washington University
- 4:23 pm-4:27 pm 7 - Arthroscopic Evaluation of the Long Head of the Biceps Tendon
CPT Austin Fares, MD, William Beaumont Army Medical Center
- 4:27 pm-4:31 pm 73 - The Short-Term Process of Recovery following Isolated Biceps Tenodesis
LTC Joseph W. Galvin, DO, Madigan Army Medical Center
- 4:31 pm-4:35 pm 129 - Arthroscopic Assisted Anterior Glenoid Reconstruction with Distal Tibia Osteochondral Allograft
LT Cory Riccio, MD, Walter Reed National Military Medical Center
- 4:35 pm-4:45 pm Discussion
- 4:45 pm-4:49 pm 201 - Risk of Iatrogenic Nerve Injury during Coracoclavicular Ligament Reconstruction
CPT James A. Jordan, MD, William Beaumont Army Medical Center
- 4:49 pm-4:53 pm 210 - Outcomes of Subscapularis Repair Techniques after rTSA: A Systematic Review
ENS Andrew Lachance, BS, Tufts Medical School
- 4:53 pm-4:57 pm 8 - Outcomes of Simultaneous Arthroscopic Rotator Cuff and Inferior Labral Repair
CPT Mikel Tihista, MD, William Beaumont Army Medical Center
- 4:57 pm-5:01 pm 104 - Surgical Management of Latissimus Dorsi Tendon Ruptures in High-Performance Pitching Athletes: A Case Series and Review of the Literature
ENS Andrew J. Recker, BS, Wake Forest School of Medicine
- 5:01 pm-5:05 pm 147 - Treatment Trends in Rotator Cuff Tears amongst ABOS Candidates
CPT Tyler Nicholson, MD, William Beaumont Army Medical Center
- 5:05 pm-5:15 pm Discussion

Rapid Fire Session 2D – Sports (Castle Peak)

- Moderators: MAJ Christopher M. Belyea, MD, MBA, *Walter Reed National Military Medical Center*
MAJ Marina Rodriguez, MD, *Keller Army Community Hospital*
- 4:15 pm-4:19 pm 101 - Does Platelet-Rich Plasma Injection Change Pain and Function Outcomes of Arthroscopic Knee or Shoulder Surgery?
ENS Andrew J. Recker, BS, Wake Forest School of Medicine
- 4:19 pm-4:23 pm 242 - Standard vs Expedited Sling Rehabilitation following Biceps Tenodesis Leads to Equivocal Outcomes for Postoperative Pain and Function: A Pilot Study
ENS Andrew J. Recker, BS, Wake Forest School of Medicine
- 4:23 pm-4:27 pm 55 - Biomechanical Comparison of Onlay Distal Biceps Repair: Intramedullary Button vs. All-Suture Anchors
CPT Donald Colantonio, MD, Walter Reed National Military Medical Center
**Presented by LT Hannah Gibbs, MD*
- 4:27 pm-4:31 pm 155 - Factors Affecting Treatment of Proximal Humerus Fractures and Outcomes
CPT Tyler Nicholson, MD, William Beaumont Army Medical Center
- 4:31 pm-4:35 pm 29 - Treatment of Glenoid Cartilage Defects Associated with Posterior Glenohumeral Instability using Micronized Allogenic Cartilage Scaffold
CPT Michael D. Bedrin, MD, Walter Reed National Military Medical Center
- 4:35 pm-4:43 pm Discussion
- 4:43 pm-4:47 pm 204 - Double Level Osteotomy for Severe Genu Varum: An Alternative to Total Knee Arthroplasty Nemesis
CPT Nemesis Y. Hazim Liriano, MD, Tripler Army Medical Center
- 4:47 pm-4:51 pm 170 - Inter- and Intra-Observer Agreement is Unsatisfactory when Determining Study Design and Level of Evidence
Lt Col Matthew R. Schmitz, MD, San Antonio Military Medical Center
- 4:51 pm-4:55 pm 185 - Modified Brostrom with and without Suture Tape Augmentation: A Systematic Review
CPT Michael D. Bedrin, MD, Walter Reed National Military Medical Center
- 4:55 pm-4:59 pm 115 - Trends in Management and Complications for Proximal Humerus Fractures
CPT Daniel J. Cognetti, MD, Brooke Army Medical Center
- 4:59 pm-5:03 pm 224 - Rotator Cuff Repair Augmentation with A Novel Biphasic Mineralized to Collagenous Scaffold: A First In-Human Safety Study with Preliminary Radiographic and Clinical Outcomes
LT Benjamin W. Hoyt, MD, Walter Reed National Military Medical Center

**Presented by CPT Cody D. Schlaff, MD*

5:03 pm-5:07 pm 222 - Simulation-Based Curriculum Using a Low-Cost Arthroscopic Glenoid Labrum Model
2LT Joshua A. Hansen, BS, Uniformed Services University of the Health Sciences

5:07 pm-5:15 pm Discussion

Special Presentation 3 – Diversity Equity and Inclusion Seminar

Moderator: Col (Sel) Matthew Schmitz, MD, *San Antonio Military Medical Center*

5:20 pm-5:35 pm Orthopaedic Surgery and DEI
Richard Ryu, MD, Hurvitz Orthopedic Clinic

5:35 pm-6:05 pm Leadership Challenges for the Military Orthopaedic Surgeon
VADM Bruce Gillingham, MD, Navy Bureau of Medicine and Surgery

6:05 pm-6:30 pm Discussion/Questions

6:30 pm-UTC **Military Female Orthopaedic Surgeons Forum** (*Granite Chef*)
LTC Jeanne C. Patzkowski, MD, Brooke Army Medical Center
LCDR Jennifer Smith, MD, Balboa Naval Medical Center

6:30 pm-9:00 pm **Commander's Cup Event – Curling** (*Montagne*)

Thursday, December 16 - Warren Kadrmas Memorial Sports Day (*Wear Your SOMOS Gear Day or Dress Down*)

12:00 am-11:59 pm **Speaker Ready Area** (*Grand Sierra Ballroom Pre-Function Area*)

6:00 am-7:00 am **Scientific E-Poster Session** (*Emigrant Peak A, Emigrant Peak B, Pyramid Peak, Castle Peak*)
(Presenters will be available to answer questions)

7:00 am-7:10 am **West Point Fellowship Update**
COL Matthew Posner, MD, Keller Army Community Hospital
MAJ Michael A. Donohue, MD, Keller Army Community Hospital

Special Presentation 4 – Live Surgery

Moderator: LTC Joseph Galvin, DO, *Madigan Army Medical Center*

7:15 am-7:45 am Live Surgery Demonstration
COL (Ret) John M. Tokish, MD, Mayo Clinic, AZ

Symposium 4 – Sports Shoulder

Moderator: LTC Daniel Song, MD, *Fort Carson*

7:50 am-8:15 am Shoulder Pain in the Throwing Athlete
Robin West, MD, Inova Sports Medicine

8:15 am-8:20 am Discussion

8:20 am-8:30 am Refreshment Break (Alpine Ballroom Foyer)

General Session 4 – Sports Shoulder

Military Moderator: LTC Daniel Song, MD, Fort Carson

Civilian Moderator: Robin West, MD, Inova Sports Medicine

8:30 am-8:35 am 23 - Biceps Tenodesis Superior to SLAP Repair in Military Patients
CPT John P. Scanaliato, MD, William Beaumont Army Medical Center

8:35 am-8:40 am 271 - The Role of Bipolar Bone Loss in Affecting Military Surgeons' Choice of Procedure for Anterior Shoulder Instability: A Multicenter Prospective Cohort Study
Maj Andrew J. Sheean, MD, San Antonio Military Medical Center

8:40 am-8:45 am 17 - Clinical Outcomes for Open Latarjet in Primary and Revision Stabilization Surgery
MAJ Justin J. Ernat, MD, Blanchfield Army Community Hospital

8:45 am-8:50 am 92 - Latarjet vs. Bankart repair in Management of Subcritical Bone Loss
CPT Jeffrey L. Wake, DO, Tripler Army Medical Center

8:50 am-8:55 am 33 - Outcomes of 270-Degree Labral Repair for Combined Shoulder Instability
CPT Austin Fares, MD, William Beaumont Army Medical Center

8:55 am-9:00 am Discussion

9:00 am-9:05 am 3 - Beach Chair vs. Lateral Decubitus Positioning for Primary Arthroscopic Anterior Shoulder Stabilization: A Consecutive Series of 641 Shoulders
CPT Bobby G. Yow, MD, Walter Reed National Military Medical Center

9:05 am-9:10 am 16 - Shoulder Arthroscopy is Recommended Prior to an Open Latarjet Procedure
MAJ Justin J. Ernat, MD, Blanchfield Army Community Hospital

9:10 am-9:15 am 181 - Prospective Evaluation of Posterior Glenoid Bone Loss after First-Time and Recurrent Posterior Glenohumeral Instability Events
CPT Michael D. Bedrin, MD, Walter Reed National Military Medical Center

9:15 am-9:20 am 37 - A Characterization and Classification of Glenoid Labral Articular Disruption (GLAD) Lesions
MAJ Justin J. Ernat, MD, Blanchfield Army Community Hospital

9:20 am-9:25 am 226 - Operative Treatment of Acromioclavicular Injuries in the Military Health System: Trends and Complication Characteristics
LT Nicholas M. Panarello, MD, Walter Reed National Military Medical Center

9:25 am-9:30 am Discussion

Panel Discussion 2 – Complex Rehabilitation Needs of the Elite and/or Warrior Athlete

Moderator: CDR James R. Bailey, MD, *Balboa Naval Medical Center*

9:30 am-10:30 am Panel: *Thomas Hackett, MD, Steadman Philippon Orthopaedic Institute*
R. Jason Jadgechew, BS, Naval Special Warfare Command
Tim Kelly, ATC, Keller Army Community Hospital
Johnny G. Owens, MPT, Owens Recovery Science, Inc.
Robin West, MD, Inova Medical Group

10:30 am-10:40 am Refreshment Break (*Alpine Ballroom Foyer*)

Symposium 5 – Sports Knee

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

10:40 am-11:05 am 290 - Sports Knee Presentation
Thomas Hackett, MD, Steadman Philippon Orthopaedic Institute

11:05 am-11:10 am Discussion

General Session 5 – Sports Knee

Civilian Moderator: *Thomas Hackett, MD, Steadman Philippon Orthopaedic Institute*

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

11:10 am-11:15 am 270 - Limb Occlusion Pressure vs. Standard Pneumatic Tourniquet Pressure in Arthroscopic Assisted ACL Reconstruction – A Randomized Trial
Capt Hannah Morehouse, MD, Houston Methodist Hospital
**Presented by Bradley S. Lambert, PhD*

11:15 am-11:20 am 216 - Risk of ACL Tear in Previously Reconstructed Military Academy Cadets
MAJ Marina Rodriguez, MD, Keller Army Community Hospital

11:20 am-11:25 am 165 - Novel Intramedullary Suture Button Technique has Similar Maximal Strength to Bicortical Post for Secondary ACL Graft Fixation
CPT Donald Colantonio, MD, Walter Reed National Military Medical Center

11:25 am-11:30 am 111 - Return to Duty following Patellar Instability Event in Military Personnel
ENS Vivek M. Abraham, BS, Naval Medical Center Portsmouth

11:30 am-11:35 am 82 - Hamstring ACL Reconstruction: Autograft Only vs. Hybrid Graft...Size is All that Matters
CPT Bryan G. Adams, MD, Madigan Army Medical Center

11:35 am-11:40 am Discussion

11:40 am-11:45 am 148 - Common Arthroscopic Knee Surgeries and Their Respective Complications

CPT Tyler Nicholson, MD, William Beaumont Army Medical Center

- 11:45 am-11:50 am 71 - Sex, Military Occupation, and Rank Are Associated with Risk of Anterior Cruciate Ligament Injury in Tactical-Athletes
LT Aubrey D. Aguero, University of Pittsburgh
- 11:50 am-11:55 am 65 - Primary Anterior Cruciate Ligament Repair with Internal Brace Augmentation Two-Year Outcomes in a Highly Active Military Population
CPT Christian Cruz, MD, Tripler Army Medical Center
- 11:55 am-12:00 pm 140 - Detectability of Senescent Cells in Synovial Fluid and Peripheral Blood in Acute Knee Injury
CDR Robert A. Waltz, MD, The Steadman Clinic
- 12:00 pm-12:05 pm 32 - Randomized Control Trial of Combined Cryotherapy with Compression vs. Cryotherapy Alone after Arthroscopic Orthopaedic Surgery
LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center
- 12:05 pm -12:10 pm Discussion
- 12:10 pm-1:10 pm **Focused Lunch Presentations** (*Silver Peak, Papoose Peak, Emigrant Peak A, Emigrant Peak B*)
- 1:10 pm-2:10 pm **Scientific E-Poster Session** (*Emigrant Peak A, Emigrant Peak B, Pyramid Peak, Castle Peak*)
(Presenters will be available to answer questions)
- 2:10 pm-2:55 pm **Multimedia Education Session** (*Grand Sierra Ballroom Pre-Function Area*)
- 1:00 pm-3:00 pm **Commander's Cup Event – Ski**
- Rapid Fire Session 3A – Sports Injuries** (*Emigrant Peak A*)
Moderators: MAJ Nicolas Skordas, MD, 60 SGSC/SGCOO
MAJ Liang Zhou, MD, MS, Tripler Army Medical Center
- 3:00 pm-3:04 pm 141 - Incidence of Shoulder Labral Pathology in US Military Members
CPT Dexter C. Allen, MD, University of Texas Medical Branch
- 3:04 pm-3:08 pm 76 - Medial Elbow Exposure: Taylor-Scham vs. FCU-Split
Capt Taylor J. Bates, MD, San Antonio Military Medical Center
- 3:08 pm-3:12 pm 254 - Epidemiology of Orthopaedic Sports Procedures in the United States Military
CPT Michael D. Bedrin, MD, Walter Reed National Military Medical Center
- 3:12 pm-3:16 pm 42 - Arthroscopic Assisted Posterior Glenoid Reconstruction with Distal Tibia Osteochondral Allograft

LT Cory Riccio, MD, Walter Reed National Military Medical Center

- 3:16 pm-3:20 pm 238 - SLAP Repair vs. Biceps Tenodesis for Isolated Type II SLAP Tears: An Expected-Value Decision Analysis
ENS Andrew J. Recker, BS, Wake Forest School of Medicine
- 3:20 pm-3:30 pm Discussion
- 3:30 pm-3:34 pm 234 - Reconstruction of Myotendinous Pectoralis Major Tendon Ruptures: A New Paradigm in Management?
ENS Andrew J. Recker, BS, Wake Forest School of Medicine
- 3:34 pm-3:38 pm 21 - Disparities in Reimbursement for Upper Extremity Injuries
CPT Michael M. Polmear, MD, William Beaumont Army Medical Center
- 3:38 pm-3:42 pm 24 - Outcomes of Primary Double-Pulley Remplissage in Active-Duty Military
CPT John P. Scanaliato, MD, William Beaumont Army Medical Center
- 3:42 pm-3:46 pm 22 - Critical Shoulder Angle and Age at Time of Rotator Cuff Tear
CPT John P. Scanaliato, MD, William Beaumont Army Medical Center
- 3:46 pm-3:50 pm 206 - Consequence Athletes with Anterior Shoulder Instability: Consider Latarjet
CDR Robert A. Waltz, MD, The Steadman Clinic
- 3:50 pm-4:00 pm Discussion

Rapid Fire Session 3B – Shoulder & Elbow (Emigrant Peak B)

Moderators: LTC Ivan Antosh, MD, *San Antonio Military Medical Center*
MAJ Michael A. Donohue, MD, *Keller Army Community Hospital*

- 3:00 pm-3:04 pm 2 - High Incidence of Anterior Shoulder Pain in Posterior Shoulder Instability
LTC Joseph W. Galvin, DO, Madigan Army Medical Center
- 3:04 pm-3:08 pm 45 - Successful Outcomes with Excision of Calcific Tendonitis and Arthroscopic Rotator Cuff Repair: A Comparative Analysis
MAJ Justin J. Ernat, MD, Blanchfield Army Community Hospital
- 3:08 pm-3:12 pm 40 - Arthroscopic Repair of Acute Rotator Cuff Tears in Patients over 70
CPT Austin Fares, MD, William Beaumont Army Medical Center
- 3:12 pm-3:16 pm 110 - Return to Manual Labor following Arthroscopic Rotator Cuff Repair
CPT Anthony N. Gavalas, MD, William Beaumont Army Medical Center
- 3:16 pm-3:20 pm 255 - Open Bankart Repair: Current Indications and Techniques
CPT William Roach, MD, Walter Reed National Military Medical Center
**Presented by CPT Umar Khan, MD*
- 3:20 pm-3:30 pm Discussion

- 3:30 pm-3:34 pm 236 - Normative Values for Patient-Reported Outcome Measures of the Shoulder
MAJ Sally Corey, DO, Keller Army Community Hospital
- 3:34 pm-3:38 pm 146 - Long-Term Outcome of Type VIII SLAP Lesion following Arthroscopic Repair
CPT Cole Johnson, William Beaumont Army Medical Center
- 3:38 pm-3:42 pm 163 - Functional Outcomes after Suprascapular Nerve Decompression in a Young Active Population
LT Conor F. McCarthy, MD, Walter Reed National Military Medical Center
- 3:42 pm-3:46 pm 46 - Anterior and Posterior Glenoid Bone Loss in Shoulder is not the Same: A Comparative 3-Dimensional Imaging Analysis
MAJ Justin J. Ernat, MD, Blanchfield Army Community Hospital
- 3:46 pm-3:50 pm 156 - Shoulder Arthroscopy Outcomes: Hospital Outpatient vs. Surgery Center
LT Sarah Nelson, MD, MS, Walter Reed National Military Medical Center
- 3:50 pm-4:00 pm Discussion

Rapid Fire Session 3C – General Misc. (Pyramid Peak)

Moderators: LCDR Erica K. Crump, MD, *Navy Medical Readiness Training Command Great Lakes*
Maj Tierney Shannon, MD, *Landstuhl Regional Medical Center*

- 3:00 pm-3:04 pm 109 - Intramedullary Bone Transport for Infected Non-Union: Series of Two Cases
CPT Aaron J. Folsom, MD, William Beaumont Army Medical Center
- 3:04 pm-3:08 pm 152 - Morphologic Evaluation of Cut vs. Uncut Cortical Screws
LT Jonathan K. Kallevang, DO, Naval Medical Center Portsmouth
- 3:08 pm-3:12 pm 90 - A Novel Tourniquet Pressure Safety Margin for Orthopedic Surgery
Major Abigail A Johnson, MA (Cantab) MRCS DMCC, University Hospital Southampton
**Presented by Gemma Westcott, BSc, MB, BS*
- 3:12 pm-3:16 pm 188 - Academic Productivity among Pediatric Orthopedic Fellowship Associated Faculty
CPT Joshua C. Tadlock, MD, William Beaumont Army Medical Center
- 3:16 pm-3:20 pm 131 - Characteristics of Shoulder Instability in Active Military Patients: A Ten-Year Case Series of 416 Patients
CPT Cole Patrick, MD, William Beaumont Army Medical Center
- 3:20 pm-3:30 pm Discussion
- 3:30 pm-3:34 pm 237 - Should Positive Cultures during Primary Total Shoulder Arthroplasty be Treated?

CAPT Wyatt V. Vander Voort, MD, University of California Davis

- 3:34 pm-3:38 pm 118 - Outcomes of ACL Internal Brace Augmentation in Adolescent Athletes
CPT Daniel J. Cognetti, MD, Brooke Army Medical Center
- 3:38 pm-3:42 pm 116 - Surgical Management of Patellar Tendinopathy: A Systematic Review
CPT Daniel J. Cognetti, MD, Brooke Army Medical Center
- 3:42 pm-3:46 pm 14 - Orthopaedic Injuries Related to All-Terrain Vehicle Use: An Epidemiological Review
2LT Alexis B. Sandler, George Washington University
- 3:46 pm-3:50 pm 251 - Hounsfield Units and Bone Mineral Density: A Systematic Review
2 LT Mariah Arave, HBS, Walter Reed National Military Medical Center
- 3:50 pm-4:00 pm Discussion

Rapid Fire Session 3D – Trauma / Foot & Ankle (*Castle Peak*)

Moderators: MAJ Katherine Bedigrew, MD, *Fort Campbell*
LTC Jeannie Huh, MD, *San Antonio Military Medical Center*

- 3:00 pm-3:04 pm 198 - Neuropathy Increase Odds for Revision of 3D-Printed Titanium Ankle Implants
ENS USNR Lindsey Johnson, MBA, BS, Duke Orthopaedics
- 3:04 pm-3:08 pm 89 - Predictive Model for Disuse Osteopenia after Combat-Related Extremity Amputation
LT Benjamin W. Hoyt, MD, Walter Reed National Military Medical Center
- 3:08 pm-3:12 pm 227 - Treatment Outcomes of Synthetic Graft Augmentation in Achilles Tendon Pathology
CPT Michael Baird, MD, Walter Reed National Military Medical Center
**Presented by Marissa Dearden, MD*
- 3:12 pm-3:16 pm 125 - Case Report: Acute Compartment Syndrome from Closed Tibialis Anterior Injury
LT Alexander D Li, MD, Naval Medical Center Portsmouth
- 3:16 pm-3:20 pm 86 - Arthroscopic Reduction and Internal Fixation of Complex Talus Fractures
MAJ(P) Kevin D. Martin, DO, Evans Army Community Hospital
- 3:20 pm-3:30 pm Discussion
- 3:30 pm-3:34 pm 99 - Predicting Outcome with the Bespoke Offloading Brace
Surg Lt Cdr (RN) Louise McMenemy, MBBS, BSc(hons), Imperial College London
- 3:34 pm-3:38 pm 149 - Achilles Tendon Injury Incidence in the Military Population

LT Christopher Sullivan, MD, MBA, Naval Medical Center San Diego

3:38 pm-3:42 pm 19 - Does Surgical Placement of Syndesmosis Screws Affect Breakage Rate? A Retrospective Comparative Study
Josh W. Vander Maten, MS, MA, BS, University of Toledo College of Medicine

3:42 pm-3:46 pm 52 - Austere Lower Extremity Splinting: New Foam Splint vs. Standard Splinting
2ndLt Tyler Webb, BS, BA, Ohio State University Wexner Medical Center

3:46 pm-3:50 pm 91 - Tibial Plafond Fractures: Analysis of 50 Most Cited Articles
CPT Franklin J Powlan, MD, William Beaumont Army Medical Center

3:50 pm-4:00 pm Discussion

4:00 pm-4:15 pm *Refreshment Break (Alpine Ballroom Foyer)*

Best of SOMOS – Award Presentations

Moderators: LTC Jeanne C. Patzkowski, MD, *Brooke Army Medical Center*
MAJ John C. Dunn, MD, *William Beaumont Army Medical Center*

4:15 pm-4:21 pm Founders' Award Abstract Presentation
28 - Major Amputation Case Volume in the Military Health System
Capt Dawn M. G. Rask, MD, Brooke Army Medical Center

4:21 pm-4:27 pm Norman T. Kirk Award Abstract Presentation
247 - Clinic-Based Hand Surgery Procedure Room: A Performance Improvement Analysis of Resource Savings and Patient Satisfaction
Patrick K. Mescher, MD, Walter Reed National Military Medical Center

4:27 pm-4:33 pm Jamie Dianne Bulken-Hoover Memorial - Best Hand Paper Award
96 - Return to Military Duty after Intra-Articular Distal Radius Fracture
CPT Anthony N. Gavalas, MD, William Beaumont Army Medical Center

4:33 pm-4:40 pm Discussion

Panel Discussion 3 – Allgood Award Winners

4:40 pm-6:00 pm Panel: COL Edward Arrington, MD
COL (Ret) B. Hudson Berrey Jr., MD
COL James R. Ficke, MD
COL (Ret) Dean C. Taylor, MD
COL (Ret) John M. Tokish, MD

7:00pm-10:30pm **Awards Dinner** (*Grand Sierra Ballroom*)
Presidential Guest Speaker - John Feinstein, Sports Commentator & Writer

Friday, December 17

12:00 am-12:20 pm **Speaker Ready Area** (*Grand Sierra Ballroom Pre-Function Area*)

6:00 am-7:00 am **Research Collaboration Update**

7:00 am-8:00 am **Service Breakouts**
Air Force (*Silver Peak*)
Army (*Alpine Ballroom*)
Navy (*Monument Peak*)

Concurrent Symposium 6A – Pediatrics

Moderator: LTC Rachel Cuenca, MD, *San Antonio Military Medical Center*

8:00 am-8:25 am An Accidental Leader
Elizabeth Magnabosco, MD, Children's Hospital of San Antonio

8:25 am-8:30 am Discussion

Concurrent Session 6A – Pediatrics

Civilian Moderator: Elizabeth Magnabosco, MD, *Children's Hospital of San Antonio*

Military Moderator: LTC Rachel Cuenca, MD, *San Antonio Military Medical Center*

8:30 am-8:35 am 106 - Are Radiographic Parameters Associated with Pathologic Fracture Development in Acute Hematogenous Osteomyelitis in the Pediatric Population?
MAJ K. Aaron Shaw, DO, Dwight D. Eisenhower Army Medical Center

8:35 am-8:40 am 107 - Have ERAS Pathways Impacted LOS For AIS? A Nationwide Perspective
MAJ K. Aaron Shaw, DO, Dwight D. Eisenhower Army Medical Center

8:40 am-8:45 am 240 - Interference Screw vs. Suture Button Fixation for Tibialis Anterior Transfer
Zachary Meyer, MD, Texas Scottish Rite Hospital for Children

8:45 am-8:50 am 244 - Virtual Visit for Pediatric Fractures: Patient Safety and Parent Satisfaction
CPT Jordan B. Damschen, DO, Madigan Army Medical Center

8:50 am-9:00 am Discussion

9:00 am-9:05 am 84 - Interference Screw Fixation for Tibialis Anterior Transfer in Young Children
Zachary Meyer, MD, Texas Scottish Rite Hospital for Children

9:05 am-9:10 am 9 - Medicaid Reimbursement of Pediatric Orthopedic Surgeries
CPT Michael D. Eckhoff, MD, William Beaumont Army Medical Center

9:10 am-9:15 am 10 - A Ten-Year National Analysis of Pediatric Elbow Fractures
CPT Michael D. Eckhoff, MD, William Beaumont Army Medical Center

9:15 am-9:20 am 192 - Avoid Catastrophe in Adolescents: Distal Femoral Stress Fractures Mimicking Knee Pathology

Capt Mikalyn T. DeFoor, MD, Brooke Army Medical Center

9:20 am-9:30 am Discussion

Concurrent Symposium 6B – Musculoskeletal Oncology (*Monument Peak*)

Moderator: MAJ Sean Kelly, MD, *Tripler Army Medical Center*

8:00 am-8:25 am Resections and Amputations: An Exercise in Surgical Optimism
Kevin Raskin, MD, Massachusetts General Hospital

8:25 am-8:30 am Discussion

Concurrent Session 6B – Musculoskeletal Oncology (*Monument Peak*)

Civilian Moderator: Kevin Raskin, MD, *Massachusetts General Hospital*

Military Moderator: MAJ Sean Kelly, MD, *Tripler Army Medical Center*

8:30 am-8:35 am 95 - Sclerostin Expression in Giant Cell Tumor of Bone
CPT Connor Venrick, MD, Tripler Army Medical Center

8:35 am-8:40 am 119 - What are the Short-Term Infectious Complications in Amputees with Transdermal “Osseointegrated” Implants?
CPT Colin Harrington, MD, Walter Reed National Military Medical Center
**LT Presented by Ariana Sheridan, MD*

8:40 am-8:45 am 197 - Defining Depression and Anxiety in Orthopaedic Sarcoma Patients
LTC Elizabeth M. Polfer, MD, Memorial Sloan Kettering Cancer Center

8:45 am-8:50 am 135 - Pediatric Primary Bone Tumors: Predictors of Survival
CPT Matthew E. Wells, DO, William Beaumont Army Medical Center

8:50 am-8:55 am 12 - Early Stage, Low Grade Endometrioid Carcinoma with Acral Metastasis to the Phalanx of the Upper Extremity
Lt Shian Liu Peterson, MD, Naval Medical Center San Diego

8:55 am-9:00 am Discussion

9:00 am-9:05 am 130 - Screw Cannulated Cementoplasty for Periarticular Metastatic Bone Lesions
Collin Walsh, MD, University of Hawai'i Orthopaedic Residency Program / Queens Medical Center

9:05 am-9:10 am 102 - Effects of Electrocautery Settings on Tissue Injury in Porcine Model
CAPT Colton Webber, MD, Medical College of Georgia at Augusta University

9:10 am-9:15 am 263 - Targeted Muscle Reinnervation and Transtibial Amputation: A Seven Year Experience at a Level 1 Military Trauma Center
CPT Thomas P. Smith, MD, Brooke Army Medical Center
**Presented by Alyssa Cook, MD*

- 9:15 am-9:20 am 252 - Musculoskeletal Complications in Extracorporeal Membrane Oxygenation for the Orthopaedic Surgeon
Capt Miles W.A. Fisher, MD, Brooke Army Medical Center
- 9:20 am-9:25 am 83 - Why are US Military Personnel Prescribed Transdermal Fentanyl Patches
LT Mark Katsma, DO, Naval Medical Center Portsmouth
- 9:25 am-9:30 am Discussion
- 9:30 am-9:50 am *Refreshment Break (Alpine Ballroom Foyer)*

Special Presentation 5 – Osteointegration and Targeted Muscle Reinnervation

Moderator: COL Joseph Alderete, MD, San Antonio Military Medical Center

- 9:50 am-10:50 am Osteointegration and Targeted Muscle Reinnervation
Jaimie T. Shores, MD, Johns Hopkins University Hospital

Concurrent Symposium 7A – Spine

Moderator: MAJ Bryan K. Lawson, MD, San Antonio Military Medical Center

- 10:50 am-11:15 am 291 - Spine Presentation
Arjun S. Sebastian, MD, Mayo Clinic

- 11:15 am-11:20 am Discussion

Concurrent Session 7A – Spine

Civilian Moderator: Arjun S. Sebastian, MD, Mayo Clinic

Military Moderator: MAJ Bryan K. Lawson, MD, San Antonio Military Medical Center

- 11:20 am-11:25 am 56 - Hooks vs. Pedicle Screws at Upper Level of Long Fusion Constructs
CPT Donald Colantonio, MD, Walter Reed National Military Medical Center

- 11:25 am-11:30 am 166 - Biomechanical Analysis of the Cervico-Thoracic Junction in Long Posterior Cervical Fusion Constructs
CPT Donald Colantonio, MD, Walter Reed National Military Medical Center

- 11:30 am-11:35 am 231 – Patient-Reported Graft Site Morbidity after Iliac Crest Bone Graft Harvest in Spine Surgery
CPT Casey S. Mueller, MD, Dwight D. Eisenhower Army Medical Center

- 11:35 am-11:40 am 218 - The Heredity of Adolescent Spinal Deformities
Captain Yair Zloof, Medical Corps, Israel Defense Forces

- 11:40 am-11:45 am 133 - Impact Induced Injuries Onboard High-Speed Boats: A Retrospective Web-Based Survey of US Veterans
David Hengst, MD, Sahlgrenska Academy, Gothenburg University

- 11:45 am-11:50 am Discussion

- 11:50 am-11:55 am 77 - Rates and Predictors of Surgery for Lumbar Disc Herniation in the Direct vs. Purchased Care Components of the Military Health System
LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center
- 11:55 am-12:00 pm 190 - Surgical Prophylaxis with Vancomycin for Uninstrumented Spine Surgeries: A Meta-Analysis
CPT Connor Zale, MD, Tripler Army Medical Center
- 12:00 pm-12:05 pm 26 - Landmark-Guided Injections for Treatment of Sacroiliac Joint Pain
Claudia Bale, BA, Virginia Commonwealth University School of Medicine
- 12:05 pm-12:10 pm 167 - Biomechanical Comparison of Anterior Plate Fixation vs. Integrated Fixation Cage for Anterior Cervical Discectomy and Fusion
CPT Donald Colantonio, MD, Walter Reed National Military Medical Center
- 12:10 pm-12:15 pm 169 - Effects of Drill Technique and Burr Size on Insertional Torque and Pullout Strength of Lateral Mass Screw Fixation
CPT Donald Colantonio, MD, Walter Reed National Military Medical Center
**Presented by CPT Sarah Rabin, MD, MS*
- 12:15 pm -12:20 pm Discussion

Concurrent Symposium 7B – Adult Reconstruction (*Monument Peak*)

Moderator: Lt Col Robert J. McGill, MD, *Fort Belvoir Army Community Hospital*

- 10:50 am-11:15 am 292 - Adult Reconstruction Presentation
Matthew Werger, MD, St. Elizabeth's Medical Center
- 11:15 am-11:20 am Discussion

Concurrent Session 7B – Adult Reconstruction (*Monument Peak*)

Civilian Moderator: Matthew Werger, MD, *St. Elizabeth's Medical Center*

Military Moderator: Major Robert M. McGill, MD, *Fort Belvoir Army Community Hospital*

- 11:20 am-11:25 am 43 - UKA: Higher TKA Conversion Rate, Lower Complication Rate than PTO
CPT Daniel L. Rodkey, MD, MBA, Walter Reed National Military Medical Center
- 11:25 am-11:30 am 54 - Machine Learning Can Predict Mortality after Aseptic Revision Joint Arthroplasty
ENS Vivek M. Abraham, BS, Naval Medical Center Portsmouth
- 11:30 am-11:35 am 69 - Survivorship of Cementless Total Knee Arthroplasty with and without Patellar Resurfacing
CPT Erickson Andrews, MD, Henry Ford Health System
- 11:35 am-11:40 am 233 - Are Patient-Reported Outcomes of Primary Arthroplasty in a Military Population Comparable to Civilian Populations?

LCDR Brian T. Barlow, MD, Naval Medical Center San Diego

- 11:40 am-11:45 am 62 - Incidence of Loss of Pulse in Nonoperative Leg for Posterior Approach THA on Pegboard
Lt. Col. William R. Howarth, MD, New England Baptist Hospital
- 11:45 am-11:52 am Discussion
- 11:52 am-11:57 am 58 - Virtual Reality Training in Unicondylar Knee Arthroplasty: A Randomized, Blinded Trial
CAPT Brandon McKinney, DO, Ventura County Medical Center
- 11:57 am -12:02 pm 63 - Prevalence of Spine Stiffness in Patients Undergoing Total Hip Arthroplasty
Lt. Col. William R. Howarth, MD, New England Baptist Hospital
- 12:02 pm-12:07 pm 67 - Reported vs. True Incidence of Surgical Sharps Exposures
CPT Erickson Andrews, MD, Henry Ford Health System
- 12:07 pm-12:12 pm 68 - Risk Factors for Loosening in Cementless Total Knee Arthroplasty
CPT Erickson Andrews, MD, Henry Ford Health System
- 12:12 pm -12:20 pm Discussion
- 12:30 pm -1:30 pm **Board of Directors Meeting** (*Tinker's Knob*)