ACCREDITATION INFORMATION

PROGRAM COMMITTEE
MAJ John C. Dunn, MD – Co-Chair
LTC Jeanne C. Patzkowski, MD – Co-Chair
LTC Jonathan F. Dickens, MD
LCDR Brian T. Barlow, MD
CPT DesRaj Clark, MD
Maj Travis J. Dekker, MD
MAJ Bryan K. Lawson, MD
Col Matthew R. Schmitz, MD
LCDR Jennifer L. Smith, MD
CDR Scott M. Tintle, 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 63rd Annual Meeting of the Society of Military Orthopaedic Surgeons has been developed primarily for orthopaedic and trauma surgeons.

PURPOSE
The intent of the SOMOS Meeting is to provide an educational forum for the exchange of militarily relevant orthopaedic surgical advances in order to optimize the delivery of orthopaedic specialty care within the Department of Defense.

OBJECTIVES
Orthopaedic surgeons should attend updates reporting on the contemporary practice of orthopaedic surgery on a regular basis. Paramount to the process of continuing medical education is the sharing of new techniques and their outcomes. The SOMOS Annual Meeting provides the opportunity for the military orthopaedic surgery community to share their combined experiences and knowledge, so that individual practitioners can incorporate the most recent advances into their own current surgical practice. By the end of the Meeting, individual SOMOS attendees will be able to do the following:

- Identify the current trends and updates pertinent to military orthopaedic surgeons relating to wartime trauma.
- Describe current treatment recommendations for common military orthopaedic conditions involving sports, foot and ankle, hand, spine and pediatric conditions.
- Formulate a plan for the assimilation of current trends and standards into their own surgical practice.
- Identify advances specific to their orthopaedic practice.

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 2021 Society of Military Orthopaedic Surgeons (SOMOS) 63rd 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 2021 Annual Meeting do not constitute endorsement, concurrence, validation or official position of SOMOS or any other department or agency.

FORMAT
The educational sessions will be held December 14-17, 2021 from approximately 7:00 am - 5:00 pm.

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 14-17 during the Scientific Program. Please note on the Scientific Program Schedule the designated times the poster presenters will be available for discussion.

MULTIMEDIA EDUCATION
Multimedia education materials will be offered December 14-17, at the designated times. A comprehensive selection of AAOS DVDs will be available for your individual education.
Monday, December 13

12:00 pm-5:00 pm  **Board of Directors Meeting**
12:00 pm-5:00 pm  **Meeting Registration**
12:00 pm-11:59 pm  **Speaker Ready Area**

Tuesday, December 14

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

7:00 am-7:10 am  **Color Guard**
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  **Civilian Presentation**
                 *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-8:20 am  Discussion

8:20 am-8:25 am  28 - Major Amputation Case Volume in the Military Health System
   *Capt Dawn M. G. Rask, MD, Brooke Army Medical Center*

8:25 am-8:30 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*

8:30 am-8:35 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*

8:35 am-8:40 am  207 - Blasting BMAC: A Novel Therapy to Heal Combat Fractures
   *MAJOR Sarah K. Stewart, MBChB, BMedSci (Hons), Imperial College London*

8:40 am-8:45 am  136 - Consequences of Non-Adherence to Evidence-Based Guidelines for Preoperative Echocardiogram
   *Capt Erin R. Swan, MD, San Antonio Military Medical Center*

8:45 am-8:50 am  Discussion

8:50 am-9:10 am  Break with Exhibitors
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

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, 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

1:00 pm-2:00 pm  Scientific E-Poster Session  
(Presenters will be available to answer questions)

2:00 pm-3:00 pm  Multimedia Education Session

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

**Rapid Fire Sessions 1A – Adult Reconstruction / Arthroplasty**
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: A
                   Systematic Review
                   Capt Jack McKeon, MD, Ohio State University

4:40 pm-4:50 pm  Discussion

4:50 pm-4:54 pm  228 - Common Peroneal Nerve Analgesia Considerations During Knee
                   Posterolateral Corner Reconstruction
                   Ryan Price, MS, University of New Mexico

4:54 pm-4:58 pm  182 - The Shift to Same-Day Shoulder Arthroplasty
                   2LT Alexis B. Sandler, George Washington University

4:58 pm-5:02 pm  124 - Total Shoulder Arthroplasty: Opioids in the Early Postoperative
                   Period
                   2LT Alexis B. Sandler, George Washington University

5:02 pm-5:06 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

5:06 pm-5:10 pm  159 - Systematic Review of Irrigation Solution in Acute Peri-Prosthetic
                   Joint Infections
                   CPT Gabriel Mason, MD, Brooke Army Medical Center
5:10 pm-5:20 pm  Discussion

**Rapid Fire Sessions 1B – Hand**

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*

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 Sublumine 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 Sessions 1C – Trauma**

Moderators: MAJ P. Christopher Johnson, MD, San Antonio Military Medical Center
LCDR Christopher H. Renninger, MD, Walter Reed National 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 Cortney 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*
*Presented by ENS Karolina A. Serhan, BA*

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 Sessions 1D – Practice Management**

Moderators:  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 Shane Kaplan, 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 Shazadeh Safavi, BS, University of Texas Medical Branch Department of Orthopaedics and Rehabilitation

5:12 pm-5:20 pm Discussion

**Wednesday, December 15**

6:00 am-7:00 am Scientific E-Poster Session

(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 Civilian Presentation

Guillaume Dumont, MD, University of South Carolina

7:25 am-7:30 am Discussion

**Concurrent Session 3A – Hip**

Civilian Moderator: Guillaume Dumont, MD, 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

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

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 96 - Return to Military Duty after Intra-Articular Distal Radius Fracture
CPT Anthony N. Gavalas, MD, William Beaumont Army Medical Center

7:35 am-7:40 am 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

7:40 am-7:45 am 79 - Factors Associated with Implant Removal following Metacarpal Fracture Plate Osteosynthesis
Phillip T. Grisdela, MD, Harvard Combined Orthopaedic Residency Program

7:45 am-7:50 am 30 - Reimbursement for Complex Carpal Trauma
CPT John P. Scanaliato, MD, William Beaumont Army Medical Center

7:50 am-7:57 am Discussion

7:57 am-8:02 am 258 - Ulnar Shortening Osteotomy is an Effective Treatment in a High-Demand Athletic Population
CPT Alicia M. Unangst, DO, Tripler Army Medical Center

8:02 am-8:07 am 257 - Surgical Intervention for Lateral Epicondylitis is Effective after Failed Conservative Therapy
CPT Alicia M. Unangst, DO, Tripler Army Medical Center

8:07 am-8:12 am 98 - Restoration of Strength in Thumb Basal Joint Arthritis: A Prospective Observational Study
Capt Kelly Mead, MD, Dartmouth Hitchcock Medical Center

8:12 am-8:17 am 203 - Traumatic Finger Amputations in the US Military
CPT James A. Jordan, MD, William Beaumont Army Medical Center
8:17 am-8:22 am  4 - Long-Term Outcomes of Wrist Sprains in Military Academy Cadets
   2LT Alexis B Sandler, George Washington University

8:22 am-8:30 am  Discussion

8:30 am-8:50 am  Break with Exhibitors

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

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
   Jason M. Souza, MD, Walter Reed National Military Medical Center

   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

12:30 pm-2:00 pm  Scientific E-Poster Session
   (Presenters will be available to answer questions)

2:00 pm-3:00 pm  Multimedia Education Session

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
   LCDR Jennifer Smith, MD, Balboa Naval Medical Center
   MAJ Travis J. Dekker, MD, Eglin Air Force Base
4:00 pm-4:15 pm  Refreshment Break

Rapid Fire Sessions 2A – Hand
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 Sessions 2B – Trauma**

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

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 Tropf, MD, Walter Reed National Military Medical Center

5:09 pm-5:15 pm  Discussion

Rapid Fire Sessions 2C – Upper Extremity
Moderators:  TBD

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
  MAJ 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 Sessions 2D – Sports
Moderators:  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:  TBD

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
LTC Jeanne C. Patzkowski, MD, Brooke Army Medical Center
LCDR Jennifer Smith, MD, Balboa Naval Medical Center
Thursday, December 16 - Warren Kadmas Memorial Sports Day

6:00 am-7:00 am  Scientific E-Poster Session
(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:  MAJ 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-8:20 am  Civilian Presentation
Robin West, MD, Inova Sports Medicine

8:20 am-8:30 am  Refreshment Break

General Session 4 – Sports Shoulder
Civilian Moderator:  Robin West, MD, Inova Sports Medicine
Military Moderator:  LTC Daniel Song, MD, Fort Carson

8:30 am-8:35 am  23 - Biceps Tenodesis Superior to SLAP Repair in Military Patients
CPT John P. Scanialiato, 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

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:  R. Jason Jadgchew, BS, Naval Special Warfare Command
Tim Kelly, ATC, Keller Army Community Hospital
Johnny G. Owens, MPT, Owens Recovery Science, Inc.
Richard Ryu, MD, Hurvitz Orthopedic Clinic
Robin West, MD, Inova Medical Group

10:30 am-10:40 am  Refreshment Break

Symposium 5 – Sports Knee
Moderator:  LCDR Andrew S. Bernhardson, MD, VA Medical Center Chicago

10:40 am-11:05 am  Civilian 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**

1:10 pm-2:10 pm  **Scientific E-Poster Session**
                        (Presenters will be available to answer questions)

2:10 pm-2:55 pm  **Multimedia Education Session**

**Rapid Fire Sessions 3A – Sports Injuries**

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 Sessions 3B – Shoulder & Elbow
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
MAJ 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 Sessions 3C – General Misc.**

**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 Sessions 3D – Trauma / Foot & Ankle**

Moderators:  MAJ Katherine Bedigrew, MD, *Fort Campbell*

3:00 pm-3:04 pm  198 - Neuropathy Increase Odds for Revision of 3D-Printed Titanium Ankle Implants  
*ENS USNR Lindsey Johnson, 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

Best of SOMOS – Award Presentations  
Moderators: MAJ John C. Dunn, MD, William Beaumont Army Medical Center  
LTC Jeanne C. Patzkowski, MD, Brooke Army Medical Center

4:15 pm-4:21 pm Founders’ Award Abstract Presentation

4:21 pm-4:27 pm Norman T. Kirk Award Abstract Presentation

4:27 pm-4:33 pm Jamie Dianne Bulken-Hoover Memorial - Best Hand Paper Award

4:33 pm-4:40 pm Discussion

Panel Discussion 3 – Allgood Award Winners

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

Friday, December 17

6:00 am-7:00 am Research Collaboration Update
7:00 am-8:00 am  Service Breakouts

Air Force
Army
Navy

Concurrent Symposium 6A – Pediatrics
Moderator: LTC Rachel Cuenca, MD, San Antonio Military Medical Center

8:00 am-8:25 am  Civilian Presentation
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  38 - Intraoperative Communication and Parental Anxiety during PSIF for AIS
Kevin Bondar, BA, University of Miami Miller School of Medicine

8:45 am-8:50 am  240 - Interference Screw vs. Suture Button Fixation for Tibialis Anterior Transfer
Zachary Meyer, MD, Texas Scottish Rite Hospital for Children

8:50 am-8:55 am  244 - Virtual Visit for Pediatric Fractures: Patient Safety and Parent Satisfaction
CPT Jordan B. Damschen, DO, Madigan Army Medical Center

8:55 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  211 - Displaced Tibial Tubercle Fractures in Adolescent Athletes  
*Marcus Erdman, MD, Penn State College of Medicine*

9:15 am-9:20 am  10 - A Ten-Year National Analysis of Pediatric Elbow Fractures  
*CPT Michael D. Eckhoff, MD, William Beaumont Army Medical Center*

9:20 am-9:25 am  192 - Avoid Catastrophe in Adolescents: Distal Femoral Stress Fractures Mimicking Knee Pathology  
*Capt Mikalyn T. DeFoor, MD, Brooke Army Medical Center*

9:25 am-9:30 am  Discussion

**Concurrent Symposium 6B – Musculoskeletal Oncology**

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

8:00 am-8:25 am  Civilian Presentation  
*Kevin Raskin, MD, Massachusetts General Hospital*

8:25 am-8:30 am  Discussion

**Concurrent Session 6B – Musculoskeletal Oncology**

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

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 Civilian 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
11:25 am-11:30 am  166 - Biomechanical Analysis of the Cervico-Thoracic Junction in Long Posterior Cervical Fusion Constructs  
*Presented by CPT Sarah Rabin, MD, MS

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

11:35 am-11:40 am  218 - The Heredity of Adolescent Spinal Deformities  
*Presented by 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  
*Presented by 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  
*Presented by 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  
*Presented by CPT Connor Zale, MD, Tripler Army Medical Center

12:00 pm-12:05 pm  26 - Landmark-Guided Injections for Treatment of Sacroiliac Joint Pain  
*Presented by 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  
*Presented by 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  
*Presented by CPT Donald Colantonio, MD, Walter Reed National Military Medical Center

12:15 pm -12:20 pm  Discussion
Concurrent Symposium 7B – Adult Reconstruction
Moderator: Lt Col Robert J. McGill, MD, Fort Belvoir Army Community Hospital

10:50 am-11:15 am Civilian Presentation
Matthew Werger, MD, St. Elizabeth’s Medical Center

11:15 am-11:20 am Discussion

Concurrent Session 7B – Adult Reconstruction
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-11:50 am Discussion

11:50 am-11:55 am 158 - Expanding Technology's Role in Lower Extremity Arthroplasty Rehabilitation: A Systematic Review
Capt Jack McKeon, MD, Ohio State University

11:55 am-12:00 pm 58 - Virtual Reality Training in Unicondylar Knee Arthroplasty: A Randomized, Blinded Trial
CAPT Brandon McKinney, DO, Ventura County Medical Center

12:00 pm-12:05 pm 63 - Prevalence of Spine Stiffness in Patients Undergoing Total Hip Arthroplasty
Lt. Col. William R. Howarth, MD, New England Baptist Hospital
12:05 pm-12:10 pm  67 - Reported vs. True Incidence of Surgical Sharps Exposures
   CPT Erickson Andrews, MD, Henry Ford Health System

12:10 pm-12:15 pm  68 - Risk Factors for Loosening in Cementless Total Knee Arthroplasty
   CPT Erickson Andrews, MD, Henry Ford Health System

12:15 pm -12:20 pm  Discussion
ADULT RECONSTRUCTION
256 - Conversion to Knee Arthrodesis from Total Knee Arthroplasty in Arthrogryposis
LT Peter E. Baglien, DO, Naval Medical Center San Diego

268 - Stacked Tibial Augments to Address Proximal Tibial Bone Loss in Setting of Revision Total Knee Arthroplasty
CPT Joseph T. Durso, MD, Madigan Army Medical Center

80 - Extraction Technique for a Fractured Bimodular Femoral Stem: Case Report and Review of the Literature
CPT Alec C. Egan, MD, MS, Madigan Army Medical Center

172 - Retrieval of Dissociated Intra-Pelvic Dual-Mobility Polyethylene Bearing: A Case Report
CPT Anthony M. Lemieux, MD, Madigan Army Medical Center

176 - Truven Database Evaluation of High Tibial Osteotomy and Unicompartmental Knee Replacement
CPT Tyler Nicholson, MD, William Beaumont Army Medical Center

FOOT & ANKLE
214 - A Detailed Analysis of Workplace Foot and Ankle Injuries
Capt Annemarie C. Galasso, MD, Medical University of South Carolina

41 - Outcomes following Intramedullary Nail vs. Plate Fixation for Tibiotalocalcaneal Arthrodesis
CPT Erik Hegeman, MD, Brooke Army Medical Center

100 - A Systematic Review of Outcomes following Lisfranc Injury Fixation
Surg Lt Cdr (RN) Louise McMenemy, MBBS, BSc(hons), Imperial College London

47 - Inappropriate Antibiotic Administration in the Setting of Charcot Arthropathy: A Case Series and Literature Review
Kiya Shazadeh Safavi, BS, Naval Medical Center San Diego

HAND & WRIST
205 - Chronic Tenosynovitis of the Hand Caused by Atypical Mycobacterial Infection. A Case Report
LCDR James M. Harrison, MD, Naval Medical Center, Portsmouth

262 - Recurrent Osteomyelitis Requiring Surgical Management Secondary to Nail Biting
CPT Marcus Hoof, MD, San Antonio Military Medical Center
184 - Stenosing Tenosynovitis: Trends in Treatment  
*CPT Marc Nichols, DO, William Beaumont Army Medical Center*

191 - Dequervain’s Tenosynovitis: Trends in Treatment  
*CPT Marc Nichols, DO, William Beaumont Army Medical Center*

160 - Neonatal Brachial Plexus Palsy: Trends in Management  
*CPT Matthew E. Wells, DO, William Beaumont Army Medical Center*

134 - Common Finger Injuries: Treatment Guidelines for Primary Care Providers  
*CPT Matthew E. Wells, DO, William Beaumont Army Medical Center*

**OTHER**

137 - Grit and Post-Operative Narcotic Use after Total Joint Arthroplasty  
*LT Andrew Ernst, MD, Naval Medical Center Portsmouth*

243 - Current Gender Diversity and Geographic Trends Amongst Orthopedic Sports Medicine Surgeons  
*ENS Kristine Kocjan, BS, Uniformed Services University of the Health Sciences*

230 - Effects of Variable Degrees of Acetabular Mobilization in Periacetabular Osteotomies  
*LT Phillip N. Langford, MD, Naval Medical Center Portsmouth*

35 - Gender and Geographic Trends amongst Foot and Ankle Surgeons: Where are We and Where do We Need to Improve?  
*Robyn Okereke, BS, University of Texas Medical Branch Department of Orthopaedics and Rehabilitation*

178 - Matching into Orthopaedic Surgery in the United States Navy  
*LT Kevin O’Mary, DO, University of Texas Medical Branch*

**SHOULDER & ELBOW**

246 - Early Outcomes of a Modified Acromioclavicular Joint Reconstruction Technique  
*CPT Kyle S. Ardavanis, MD, Madigan Army Medical Center*

85 - The Short-Term Process of Recovery following Arthroscopic Bankart Repair  
*MAJ Joseph W. Galvin, DO, Madigan Army Medical Center*

209 - Incidence of Shoulder Dislocations in United States Emergency Departments  
*CPT Cole Patrick, MD, William Beaumont Army Medical Center*

78 - Overuse Injury in Military Working Dog Handlers  
*Michael W. Patt, DO, Madigan Army Medical Center Shoulder & Elbow*
174 - Inter-Rater Reliability Measuring the Glenoid Track  
*Robert M. Putko, MD, Walter Reed National Military Medical Center*

49 - Cardiac Arrest after Interscalene Block Prior to Arthroscopic Shoulder Surgery: A Case Report  
*LT Jasmine Scott, MD, JD, Naval Medical Center, San Diego*

151 - The Accuracy of Measuring Glenoid Bone Loss  
*CPT Joshua W. Sy, DO, Tripler Army Medical Center*

261 - Triple Tendon Transfer Outcomes: Case Series on Active-Duty Military  
*CPT Alicia M. Unangst, DO, Tripler Army Medical Center*

138 - Version and Inclination Measurement Positions Vary among Preoperative Planning Software  
*CDR Robert A. Waltz, MD, The Steadman Clinic*

**SPINE**
108 - Cervical Disc Herniation in Military Pilots  
*Capt Patrick J. Tansey, MD, University of Texas Medical Branch*