ACCREDITATION INFORMATION

PROGRAM COMMITTEE
MAJ James A. Blair, MD – Co-Chair
Lt Col R. Judd Robins, MD
MAJ Travis C. Burns, MD
CDR Charles E. Craven Jr., MD
CAPT Sarah N. Pierrie, MD
LTC Benjamin K. Potter, MD
Maj Matthew R. Schmitz, MD, FAAP
Lt Col Mark Slabaugh, 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 58th Annual Meeting of the Society of Military Orthopaedic Surgeons has been developed primarily for orthopaedic and trauma surgeons.

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

The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of 30.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

* 20 CME Credits for Scientific Program
* 6 CME Credits for Scientific E-Poster Sessions
* 4.75 CME Credits for Multimedia Education Sessions

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 its 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:

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

**DISCLAIMER**
The Society of Military Orthopaedic Surgeons 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 2016 Society of Military Orthopaedic Surgeons (SOMOS) 58th 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 2016 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 13-16, 2016 from approximately 7:00 am - 5:00 pm.

**SCIENTIFIC E-POSTER PRESENTATIONS**
Scientific E-Posters are an important feature of the SOMOS Annual Meeting. Posters will be on video display along with their presenters December 13-16 during the Scientific Program. Posters will be on display each day of 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 13-16, at the designated times. A comprehensive selection of AAOS DVDs will be available for your individual education.
SOMOS Scientific Program

Monday, December 12

12:00 pm-8:00 pm  Meeting Registration

12:00 pm-11:59 pm  Speaker Ready Area

Tuesday, December 13

12:00 am-11:59 pm  Speaker Ready Area

6:30 am-11:45 pm  Meeting Registration

Opening Ceremony
Moderators: MAJ James A. Blair, MD, Program Co-Chair, William Beaumont Army Medical Center, El Paso, TX
Lt Col R. Judd Robins, MD, Program Co-Chair, United States Air Force Academy, Colorado Springs, CO
Lt Col Mark A. Slabaugh, MD, President, United States Air Force Academy, Colorado Springs, CO

7:00 am -7:20 am  Opening Ceremony

7:00 am-7:10 am  Color Guard

7:10 am -7:20 am  Report of SOMOS President

Symposium 1: Lower Extremity Injuries 1
Moderator: MAJ James A. Blair, MD, William Beaumont Army Medical Center, El Paso, TX

7:20 am-7:45 am  Femoral Head Fractures
H. Claude Sagi, MD, Harborview Medical Center, Seattle, WA

7:45 am-7:50 am  Discussion

7:50 am-8:10 am  Break with Exhibitors

General Session 1: Lower Extremity Injuries 1
Civilian Moderator: H. Claude Sagi, MD, Harborview Medical Center, Seattle, WA
Military Moderator: MAJ James A. Blair, MD, William Beaumont Army Medical Center, El Paso, TX
8:10 am-8:16 am  Quality Of Life, Spatiotemporal Gait Parameters And Overall Outcomes In Patients With Elective Delayed Amputation After Failed Limb Preservation  
*LT Kimberly Spahn, MD, Naval Medical Center San Diego, San Diego, CA*

8:16 am-8:22 am  Femoral Neck Stress Fractures In Military Recruits: Clinical Course And Risk Factors For Progression  
*LT Clarence E. Steele, MD, Naval Medical Center San Diego, San Diego, CA*

8:22 am-8:28 am  Functional Outcomes of Operatively Treated Femoral Neck Stress Fractures  
*CPT Emmanuel D. Eisenstein, MD, William Beaumont Army Medical Center, El Paso, TX*

8:28 am-8:34 am  Discussion

8:34 am-8:40 am  Lower Extremity Non Tensioned Traction Pins: Is It A Benign Procedure?  
*Capt Irshad Shakir, MD, Saint Louis University School of Medicine, St. Louis, MO*

8:40 am-8:46 am  Delayed Primary Closure Of Fasciotomies Utilizing Acute Dermatotraction  
*Capt James W. Barnes, MD, University of Missouri - Kansas City, Kansas City, MO*

8:46 am-8:52 am  Spatiotemporal Gait Improvements After Pilon Fracture Using The Intrepid Dynamic Skeletal Orthosis  
*LT Michael A Quacinella, DO, MPH, Naval Medical Center San Diego, San Diego, CA*

8:52 am-8:58 am  Dismounted Complex Blast Injuries: Patterns Of Contralateral Limb Injuries In Patients With Lower Extremity Amputations  
*LTC Paul M. Ryan, MD, Tripler Army Medical Center, Honolulu, HI*  
*Presented by CPT Steven Wilding, MD*

8:58 am-9:04 am  Early Revision Surgery For Tibial Plateau Fractures  
*LT Dominic Van Nielen, MD, Naval Medical Center Portsmouth, Portsmouth, VA*

9:04 am-9:10 am  Discussion

**Rapid Fire Session 1A: Miscellaneous Trauma**

Moderator:  MAJ Justin Fowler, MD, *San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX*
9:15 am-9:19 am  Plafond Impaction In Supination-Adduction Ankle Fractures: The Role Of Computed Tomography In Diagnosis And Surgical Planning
Ram K. Alluri, MD, Keck School of Medicine at USC, Los Angeles, CA

9:19 am-9:23 am  Outcomes Of Lisfranc Injuries In An Active Duty Military Population
CPT Michael Hawkinson, MD, San Antonio Military Medical Center San Antonio, TX

9:23 am-9:27 am  Treatment of Low Energy Lisfranc Joint Injuries in a Young Athletic Population: Primary Arthrodesis Compared with Open Reduction and Internal Fixation
LT Grant K. Cochran, MD, Naval Medical Center San Diego, San Diego, CA

9:27 am-9:30 am  Discussion

9:30 am-9:34 am  Introduction of Modern Reverse Total Shoulder Arthroplasty: A Comprehensive Analysis of a High-Volume Center
Maj Dane Salazar, MD, Washington University, St. Louis, MO

9:34 am-9:38 am  Outcomes Of Triceps Rupture In The US Military. Minimum 2 Year Follow-Up
CPT John Dunn, MD, William Beaumont Army Medical Center, El Paso, TX
*Presented by CPT Nicholas Zarkadis, MD

9:38 am-9:42 am  A Systematic Review Of Pre-Clinical Trials To Prevent Or Treat Bone Non-Union
Captain Sarah K. Stewart, MBChB BMedSci (Hons), Frimley Park Hospital, Surry, United Kingdom

9:42 am-9:45 am  Discussion

**Rapid Fire Session 1B: Basic Science**
Moderator: MAJ Jessica C. Rivera, MD, US Army Institute of Surgical Research, JBSA-Fort Sam Houston, TX

9:15 am-9:19 am  The Effect Of Mesenchymal Progenitor Cell Therapy On Fibrosis And Recovery In A Muscle Crush Mode
LT Daniel W. Griffin, MD, William Beaumont Army Medical Center, El Paso, TX

9:19 am-9:23 am  In-Vivo Chondrotoxicity Of Liposomal Bupivacaine In A Porcine Model
CPT K. Aaron Shaw, DO, Dwight D. Eisenhower Army Medical Center, Fort Gordon, GA
9:23 am-9:27 am  Detecting Differences In The Interpretation Of Radiographs: Do Gaze Data Vary Based On Level Of Expertise?  
*Maj Andrew J. Sheean, MD, San Antonio Military Medical Center, San Antonio, TX*

9:27 am-9:30 am  Discussion

9:30 am-9:34 am  In Vitro Effect Of Vancomycin On The Viability Of Articular Chondrocytes  
*CPT K. Aaron Shaw, DO, Dwight D. Eisenhower Army Medical Center, Fort Gordon, GA*

9:34 am-9:38 am  Serum Metal Ions In Well-Functioning Total Hip Arthroplasty: Does Femoral Stem Metallurgy Affect Results?  
*LCDR Brian T. Barlow, MD, Naval Medical Center San Diego, San Diego, CA*

9:38 am-9:42 am  Local Control Of Polymicrobial Infections Via A Dual Antibiotic Delivery System  
*CPT David J. Tennent, MD, San Antonio Military Medical Center, Ft Sam Houston, TX*

9:42 am-9:45 am  Discussion

**Rapid Fire Session 1C: Education**

Moderator: MAJ Michael Beltran, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

9:15 am-9:19 am  Orthopaedic Residency Training Structure. Implications On Quantity And Quality Of Scholarship  
*CPT John Dunn, MD, William Beaumont Army Medical Center, El Paso, TX*  
*Presented by CPT Richard VanTienderen DO*

9:19 am-9:23 am  Publication Rate Of Abstracts Presented At The Annual Military Orthopaedic Meeting,  
*CPT John Dunn, MD, William Beaumont Army Medical Center, El Paso, TX*  
*Presented by CPT Richard VanTienderen DO*

9:23 am-9:27 am  Analysis of References Used in Orthopaedic Self-Assessment Exams  
*Capt Sean P. Moroze, MD, San Antonio Military Medical Center, Ft Sam Houston, TX*

9:27 am-9:30 am  Discussion
3-Year Analysis Of Value And Utilization After Development Of An Orthopaedic Ultrasound Injection Clinic
CPT Chase Dukes, MD, Madigan Army Medical Center, Tacoma, WA

Orthopaedic Resident Surgical Case Log Disparities Observed In The Next Accreditation System
CPT Jonathan H. Payne, MD, San Antonio Military Medical Center, Ft Sam Houston, TX

Factors Impacting The Quantity And Quality Of Research Publications At Academic Orthopaedic Residency Programs
MAJ Chad A. Krueger, MD, Womack Army Medical Center, Fort Bragg, NC

Discussion

Rapid Fire Session 1D: Military Medicine
Moderator: LTC Kenneth J. Nelson, MD, Womack Army Medical Center, Fort Bragg, NC

Something Old Or Something New? Casualty Care Behind The Lines 1916
COL (RTD) Peter F. Sharwood, MBBS FRACS FA(Orth)A, Greenslopes Private Hospital, Brisbane Queensland

An Analysis Of The Most Commonly Tested Topics And Their Taxonomy From Recent Self-Assessment Examinations
Capt Andrew S. Murtha, MD, San Antonio Military Medical Center, Ft Sam Houston, TX

The Impact Of The Thomas Splint
COL (RTD) Peter F. Sharwood, MBBS FRACS FA(Orth)A, Greenslopes Private Hospital, Brisbane Queensland

Discussion

Evolution Of Fsts Supporting Unconventional Warfare: Considerations For Future Development And Utilization
CPT(P) Michael A. Donohue, MD, Walter Reed National Military Medical Center, Bethesda, MD

Deployment Numbers And What They Are Telling Us
MAJ Jeremy McCallum, MD, Landstuhl Regional Medical Center, Landstuhl, Germany
9:38 am-9:42 am  The Interwar Period: Promising Role For Medical Readiness Training Exercises In Maintaining Military Orthopedic Surgical Skills
2D LT Kelly C. Mead, BA, San Antonio Military Medical Center, Ft Sam Houston, TX

9:42 am-9:45 am  Discussion

Symposium 2: Lower Extremity Injuries 2
Moderator: Maj Ryan Finnan, MD, University of Cincinnati, Cincinnati, OH

9:50 am-10:15 am  Failure: Engineering in Orthopaedics
Michael T. Archdeacon, MD, MSE, University of Cincinnati Academic Health Center, Cincinnati, OH

10:15 am-10:20 am  Discussion

10:20 am-10:40 am  Break with Exhibitors

General Session 2: Lower Extremity Injuries 2
Civilian Moderator: Michael T. Archdeacon, MD, MSE, University of Cincinnati Academic Health Center, Cincinnati, OH
Military Moderator: Maj Ryan Finnan, MD, University of Cincinnati, Cincinnati, OH

10:40 am-10:46 am  Continual Near Infrared Spectroscopy Monitoring in the Injured Extremity at Risk for Acute Compartment Syndrome—Results of a Prospective, FDA-IDE Trial
Brett A. Freedman, MD, Mayo Clinic, Rochester, MN

10:46 am-10:52 am  A Pilot Study Of Telesurgery For Compartment Release
LCol Max Talbot, MD, Canadian Armed Forces, Montréal, Canada

10:52 am-10:58 am  Creation And Evaluation Of A Training Program To Train Non-Orthopedic Medical Personnel To Accurately Measure Leg Intracompartmental Pressure With Use Of A Novel Pressure Transducer
Lt Col Christopher LeBrun, MD, R. Adams Cowley Shock Trauma Center, Baltimore, MD

10:58 am-11:04 am  Mechanical Wound Therapy - The Next Generation in Advanced Wound Care
Brett A. Freedman, MD, Mayo Clinic, Rochester, MN

11:04 am-11:10 am  Discussion

11:10 am-11:16 am  ORIF vs ORIF And Primary Subtalar Arthrodesis For Displaced Intraarticular Calcaneus Fractures: A Decision Analysis
11:16 am-11:22 am  Combat Hindfoot Fractures In UK Military 2003-2014 - Is Salvage Feasible?  
Surg Lt Philippa M. Bennett, MB, ChB, Royal Centre for Defence Medicine, Birmingham, United Kingdom

11:22 am-11:28 am  Outcomes Of Talus Fractures Associated With Combat-Related Injuries  
Capt Travis Junge, MD, San Antonio Military Medical Center, San Antonio, TX

11:28 am-11:34 am  Hindfoot Fractures In UK Combat Casualties: Medium-Term Patient Reported Outcomes  
Surg Lt Cdr Jowan G. Penn-Barwell, MB ChB, MSc, FRCS (Tr & Orth), Royal Centre for Defence Medicine, Birmingham, United Kingdom

11:34 am-11:40 am  Discussion

11:40 am-12:40 pm  SOMOS Luncheon – Industry Presentation

12:45 pm-2:15 pm  Scientific E-Poster Session (Poster presenters will be available to answer questions)

2:15 pm-3:30 pm  Multimedia Education Session

3:30 pm-5:20 pm  Meeting Registration

Symposium 3: Upper Extremity Trauma  
Moderator:  Lt Col Christopher LeBrun, MD, R. Adams Cowley Shock Trauma Center, Baltimore, MD

3:30 pm-3:55 pm  Fractures of the Clavicle: How Science Changed Practice  
Michael McKee, MD, St. Michael’s Hospital, Toronto, ON

3:55 pm-4:00 pm  Discussion

General Session 3: Upper Extremity Trauma  
Civilian Moderator:  Michael McKee, MD, St. Michael’s Hospital, Toronto, ON
Military Moderator:  Lt Col Christopher LeBrun, MD, R. Adams Cowley Shock Trauma Center, Baltimore, MD

4:00 pm-4:06 pm  Upper Extremity Injuries and Correlates with Amputation Outcome Following Combat Trauma  
Capt John J. Carroll, MD, San Antonio Military Medical Center, San Antonio, TX
4:06 pm-4:12 pm  Operative Management Of Unstable Radial Head Fractures In A Young Active Population  
CPT Emmanuel D. Eisenstein, MD, William Beaumont Army Medical Center, El Paso, TX

4:12 pm-4:18 pm  Orthopaedic And Plastic Surgery Training Differences Manifested In The Analysis Of Distal Radius Fracture Fixation  
Logan R. Koehler, MD, William Beaumont Army Medical Center, El Paso, TX

4:18 pm-4:24 pm  Distal Ulnar Hounsfield Units Accurately Predicts Future Fragility Fracture Risk  
LT Theodora Dworak, MD, Walter Reed National Military Medical Center, Bethesda, MD

4:24 pm-4:30 pm  Discussion

4:30 pm-4:36 pm  Abstract TBA

4:36 pm-4:42 pm  Ulnar Collateral Ligament Repair following Elbow Dislocation  
Aaron Wey, MD, William Beaumont Army Medical Center, El Paso, TX

4:42 pm-4:48 pm  Radial Head Arthroplasty In The Young High Demand Military Servicemember With Minimum 2-Year Follow-Up  
CPT John Dunn, MD, William Beaumont Army Medical Center, El Paso, TX

4:48 pm-4:54 pm  Inaccuracy In Diagnosis And Inefficiency Of Management Of Orthopaedic Injuries By Emergency Medicine Physicians  
CPT Nicholas Kusnezov, MD, William Beaumont Army Medical Center, El Paso, TX

4:54 pm-5:00 pm  Discussion

5:00 pm-6:00 pm  **Scientific E-Poster Session Tour** (Presenters will be available to answer questions.)  
Lt Col R. Judd Robins, MD, United States Air Force Academy, Colorado Springs, CO

**Wednesday, December 14 - Warren Kadrmas Memorial Sports Day**

12:00 am-11:59 pm  Speaker Ready Area
6:30 am-7:00 am  **Scientific E-Poster Session** (Presenters will be available to answer questions.)

6:30 am-11:15 am  Meeting Registration

**Symposium 4: Sports - Knee**  
Moderator:  CDR Lance E. LeClere, MD, *US Naval Academy, Annapolis, MD*

7:00 am-7:25 am  Title  
*Darren L. Johnson, MD, University of Kentucky Sports Medicine, Lexington, KY*

7:25 am-7:30 am  Discussion

**General Session 4: Sports - Knee**  
Civilian Moderator:  Darren L. Johnson, MD, *University of Kentucky Sports Medicine, Lexington, KY*

Military Moderator:  CDR Lance E. LeClere, MD, *US Naval Academy, Annapolis, MD*

7:30 am-7:36 am  Acute Changes In Serum Biomarkers Of Collagen Turnover And Metabolism Following Anterior Cruciate Ligament Injury  
*Kenneth L. Cameron, PhD, MPH, ATC, Keller Army Hospital West Point, NY*

7:36 am-7:42 am  Epidemiology and Risk Factors for Failed Meniscal Repair in a Military Population  
*CPT Alaina Brelin, MD, Walter Reed National Military Medical Center Bethesda, MD*

7:42 am-7:48 am  Return To Duty After ACL Reconstruction: Are We Getting Them Back?  
*MAJ Jay B. Cook, MD, Winn Army Community Hospital, Fort Stewart, GA*

7:48 am-7:54 am  Moderate Return To High Impact Function After Fresh Osteochondral Allograft Transplantation For Medium To Large Chondral Defects Of The Knee  
*MAJ Dimitri M. Thomas, MD, Munson Army Health Center, Fort Leavenworth, KS*

7:54 am-8:00 am  Discussion

8:00 am-8:06 am  Predictors Of Subsequent Injury After ACL Reconstruction In Children And Adolescents  
*Captain Travis J. Dekker, MD, Duke University, Durham, NC*
8:06 am-8:12 am  Interference Screw Position Relative To A Bone Patellar Tendon Bone Anterior Cruciate Ligament Graft In The Tibia: Is A Cortical Or Cancellous Graft Screw Interface Stronger?  
*Maj Nathan Marsh, MD, Keller Army Community Hospital, West Point, NY*

8:12 am-8:18 am  Avoiding Graft Tunnel Mismatch In Allograft Anterior Cruciate Ligament Reconstruction: The Blumensaat’s Line Method  
*LCDR Patrick W. Joyner, MD, Naval Medical Center Portsmouth, Portsmouth, VA*

8:18 am-8:24 am  Passive Anterior Tibial Subluxation in the Setting of ACL Injury: A Comparative Analysis of Ligament Deficient States  
*LCDR Lucas McDonald, MD, MPH, Naval Medical Center San Diego, San Diego, CA*

8:24 am-8:30 am  Discussion

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

**Rapid Fire Session 2A: Shoulder Instability**  
**Moderator:** Maj Stephen A. Parada, MD, Dwight D. Eisenhower Army Medical Center, Ft Gordon, GA

8:50 am-8:54 am  Radiographic Characterization Of Posterior Bone Loss Using Computed Tomography And Three-Dimensional Printed Models With Recurrent Posterior Shoulder Instability  
*Capt Matthew Provencher, MD, The Steadman Clinic, Vail, CO*

8:54 am-8:58 am  Incidence and Outcomes of Open Biceps Tenodesis in Patients 30 and Younger  
*CPT Alaina Brelin, MD, Walter Reed National Military Medical Center Bethesda, MD*

8:58 am-9:02 am  Low Risk Of Recurrence After Posterior Labral Repairs In An High-Risk US Military Population  
*CPT Stephen Chan, MD, William Beaumont Army Medical Center, El Paso, TX*

9:02 am-9:05 am  Discussion

9:05 am-9:09 am  Prospective Analysis Of Imaging And Surgical Findings In Surgical Instability: A Matched Cohort Analysis Of Patients With Anterior Versus Posterior Instability  
*Capt Matthew Provencher, MD, The Steadman Clinic, Vail, CO*
Anterior Anchor Position Is Not Associated With Higher Failure Rate After Isolated Type II Slap Repair

*CPT William Arroyo, MD, William Beaumont Army Medical Center, El Paso, TX*

Open Versus Arthroscopic Anterior Shoulder Stabilization in the Collision and Contact Athlete: A Systematic Review

*CPT Alaina Brelin, MD, Walter Reed National Military Medical Center Bethesda, MD*

Discussion

**Rapid Fire Session 2B: Young Adult Hip Preservation Session**

**Moderator:** LCDR Brian T. Barlow, MD, Naval Medical Center San Diego, San Diego, CA

LCDR Terrence D. Anderson, MD, Walter Reed National Military Medical Center Bethesda, MD

8:50 am-8:54 am  Defining New Measures Of Debility In Patients With Femoroacetabular Impingement Syndrome

*Maj Andrew J. Sheean, MD, San Antonio Military Medical Center, San Antonio, TX*

8:54 am-8:58 am  Hip Arthroscopy For Femoroacetabular Impingement In A Military Cohort: Short And Long Term Outcomes

*Captain Sarah K. Stewart, MBChB BMedSci (Hons), Frimley Park Hospital, Surry, United Kingdom*

8:58 am-9:02 am  Labral Hypertrophy Is Associated With Subtle Hip Dysplasia In An Impingement Cohort

*MAJ Nathan Marsh, MD, Keller Army Community Hospital, West Point, NY*

9:02 am-9:05 am  Discussion

9:05 am-9:09 am  The Vacuum Sign Of The Hip: A Radiographic Indicator Of Chondrolabral Disruption

*Maj Matthew C. Mai, MD, Eglin Air Force Base, Valparaiso, FL*

9:09 am-9:13 am  Safe Operation Of The Brake Pedal Following Arthroscopic Hip Surgery

*LCDR George C. Balazs, MD, Walter Reed National Military Medical Center, Bethesda, MD*

9:13 am-9:17 am  Functional Outcomes Of Arthroscopically Treated Femoroacetabular Impingement In An Active Duty Population

*CPT Griffin M. Biedron, MD, William Beaumont Army Medical Center, El Paso, TX*
9:17 am-9:20 am  Discussion

**Rapid Fire Session 2C: Sports Knee**

**Moderator:** LtCol Brett C. Anderson, MD, *United States Air Force Academy, Colorado Springs, CO*

8:50 am-8:54 am  Septic Arthritis after Anterior Cruciate Ligament Reconstruction: Does Graft Retention Portend Increased Risk of Surgical Revision?
*CPT William Arroyo, MD, William Beaumont Army Medical Center, El Paso, TX*

8:54 am-8:58 am  Platelet Rich Plasma: No Significant Early Improvements In A Military Population After Intra-Articular Knee Injection
*MAJ Anthony M. Barcia, MD, 121 Combat Support Hospital/ Brian Allgood Army Community Hospital, Seoul, Korea*

8:58 am-9:02 am  Functional Outcomes, Complications, And Re-Rupture Following Patellar Tendon Repair In A Young Active Population With Intense Lower Extremity Demands
*CPT Phillip R. Schneider, MD, William Beaumont Army Medical Center, El Paso, TX*

9:02 am-9:05 am  Discussion

*CPT Timothy B. Pekari, MPAS, William Beaumont Army Medical Center, El Paso, TX*

9:09 am-9:13 am  Return To Play After ACL Injury In The NFL, Which Team Does It Best?
*CPT Emmanuel D. Eisenstein, MD, William Beaumont Army Medical Center, El Paso, TX*

9:13 am-9:17 am  Fascia Iliaca Blockade With And Without Liposomal Bupivacaine For Perioperative Pain Management During Hip Arthroscopy
*CPT Richard L. Purcell, MD, Walter Reed National Military Medical Center, Bethesda, MD*

9:17 am-9:20 am  Discussion

**Rapid Fire Session 2D: Miscellaneous**

**Moderator:** COL Steven J. Svoboda, MD, *Keller Army Community Hospital/United States Military Academy, West Point, NY*
8:50 am-8:54 am  Occupational Outcomes Of Reconstructive Surgery For Adult Acquired Flatfoot Deformity  
*LTC Michael T. Finnern, MD, Tripler Army Medical Center, Honolulu, HI*

8:54 am-8:58 am  Anatomically Contoured Anterior Plating For Isolated Tibiotalar Arthrodesis: A Systematic Review  
*CPT Nicholas Kusnezov, MD, William Beaumont Army Medical Center, El Paso, TX*

8:58 am-9:02 am  New Technique For Tibiotalar Arthrodesis Using A New Intramedullary Nail Device: A Cadaveric Study  
*CPT Emmanuel D. Eisenstein, MD, William Beaumont Army Medical Center, El Paso, TX*

9:02 am-9:05 am  Discussion

9:05 am-9:09 am  Return To Sport Following Intramedullary Fixation Of Jones Fractures In A Young, Active Population  
*Logan R. Koehler, MD, William Beaumont Army Medical Center, El Paso, TX*

9:09 am-9:13 am  Efficacy Of Map3 Cellular Allogeneic Bone Graft In Foot And Ankle Arthrodesis Procedures  
*Captain Travis J. Dekker, MD, Duke University, Durham, NC*

9:13 am-9:17 am  Radiographic Outcomes Following Intraosseous Sliding Osteotomy Plate For Hallux Valgus  
*LT Theodora Dworak, MD, Walter Reed National Military Medical Center, Bethesda, MD*

9:17 am-9:20 am  Discussion

**Symposium 5: Sports Foot and Ankle Injuries**
Moderator:  *LTC Paul M. Ryan, MD, Tripler Army Medical Center, Honolulu, HI*

9:25 am-9:50 am  Management Of Osteochondral Lesions Of The Talus  
*Annunziato “Ned” Amendola, MD, Duke Sports Science Institute, Durham, NC*

9:50 am-9:55 am  Discussion

9:55 am-10:15 am  Break with Exhibitors

**General Session 5: Sports Foot and Ankle Injuries**
Civilian Moderator:  *Annunziato “Ned” Amendola, MD, Duke Sports Science Institute, Durham, NC*
Military Moderator: LTC Paul M. Ryan, MD, Tripler Army Medical Center, Honolulu, HI

10:15 am-10:21 am Early Versus Delayed Weightbearing After Microfracture For Osteochondral Lesions Of The Talus: A Prospective Randomized Trial
CPT James B. Deal, MD, Tripler Army Medical Center, Honolulu, HI

10:21 am-10:27 am The Epidemiology Of Lisfranc Injuries At The NFL Combine And Its Impact On An Athlete’S NFL Career
CAPT Matthew Provencher, MD, The Steadman Clinic, Vail, CO

10:27 am-10:33 am Injury Characteristics of Low-Energy Lisfranc Injuries Compared with High-Energy Injuries
LT Christopher H. Renninger, MD, Naval Medical Center San Diego, San Diego, CA

10:33 am-10:39 am Comparative Outcomes For Treatment Of Articular Cartilage Lesions In The Ankle With Juvenile Particulated Cartilage Allograft: Open Versus Arthroscopic Treatment
CPT Robert C. Turner, MD, Tripler Army Medical Center, Honolulu, HI

10:39 am-10:45 am Discussion

10:45 am-10:51 am Wound Complications with Open Repair of Achilles Tendon Rupture: A Comparison of Two Surgical Approaches
Lieutenant K. J. Hippensteel, MD, Washington University in Saint Louis Orthopedic Surgery, Saint Louis, MO

10:51 am-10:57 am Rates Of Secondary Operations With Use Of Particulated Juvenile Cartilage In The Treatment Of Talus Osteochondral Lesions
Captain Travis J. Dekker, MD, Duke University, Durham, NC

10:57 am-11:03 am Comparison Of MRI And Operative Findings In Peroneal Tendon Disorders In A Military Population
CPT Shawn E. Boomsma, DO, Dwight D. Eisenhower Army Medical Center, Fort Gordon, GA

11:03 am-11:09 am Treatment Of Proximal Fifth Metatarsal Fractures And Re-Fractures In Elite Athletes With Plantar Plating
LT Ronald J. Mitchell, MD, Houston Methodist Hospital, Houston, TX

11:09 am-11:15 am Discussion

Mazurek Award Presentation
Moderator: Lt Col Mark A. Slabaugh, MD, United States Air Force Academy, Colorado Springs, CO
11:15 am-11:25 am  CDR Michael T. Mazurek Clinician Scholar Award Presentation

11:25 am-12:25 pm  **SOMOS Luncheon – Industry Presentation**

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

2:00 pm-3:30 pm  **Multimedia Education Session**

3:30 pm-6:00 pm  Meeting Registration

**Symposium 6: Sports – Pediatric Sports Injuries**
Moderator: Maj Matthew R. Schmitz, MD, FAAP, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

3:30 pm – 3:55 pm  Anatomy Of The Pediatric/Adolescent Knee, And Avoiding Physeal Injury During Ligament Reconstruction?  
*Kevin G. Shea, MD, St. Lukes Clinic Orthopedics, Boise, ID*

3:55 pm – 4:00 pm  Discussion

**General Session 6: Sports – Sports Injuries**
Civilian Moderator: Kevin G. Shea, MD, St. Lukes Clinic Orthopedics, Boise, ID  
Military Moderator: Maj Matthew R. Schmitz, MD, FAAP, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

4:00 pm-4:06 pm  Incidence Of Anterolateral Ligament Tears In The ACL Deficient Knee- A MRI Study In A Community Population  
*Lt Col Mark A. Slabaugh, MD, United States Air Force Academy, Colorado Springs, CO*

4:06 pm-4:12 pm  Segond Fracture: A Risk Factor for Anterior Cruciate Ligament Reconstruction Failure?  
*Capt Christopher L. Gaunder, MD, San Antonio Military Medical Center, San Antonio, TX*

4:12 pm-4:18 pm  Second Generation Autologous Chondrocyte Implantation In The Patella: Short-Term Pain Relief And Functional Outcomes Among U.S. Army Servicemembers  
*Maj Brian R. Waterman, MD, William Beaumont Army Medical Center, El Paso, TX*

4:18 pm-4:24 pm  Open Reduction Internal Fixation of Isolated Chondral Fragments Without Osseous Attachment in the Knee: A Case Series  
*LCDR James Bailey, MD, Duke University, Durham, NC*
4:24 pm-4:30 pm  Discussion

4:30 pm-4:36 pm  Classification And Analysis Of Attritional Glenoid Bone Loss In Recurrent Anterior Shoulder Instability
CAPT Matthew Provencher, MD, The Steadman Clinic, Vail, CO

4:36 pm-4:42 pm  Reliability Of A Simple Calculation For Measuring Glenoid Bone Loss On 3D Computed Tomography (CT) Scans
MAJ Stephen Parada, MD, Dwight D. Eisenhower Army Medical Center, Ft Gordon, GA

4:42 pm-4:48 pm  Biceps Tenodesis Vs. Repair For Type II SLAP Tears In Patients Less Than 30 Years Old
LT Dominic Van Nielen, MD, Naval Medical Center Portsmouth, Portsmouth, VA

4:48 pm-4:54 pm  Evaluating Glenoid Bone Reaction To Soft Anchors Used For Shoulder Labral Repairs
LT Trevor M. Tompane, MD, MPH, Naval Medical Center San Diego, San Diego, CA

4:54 pm-5:00 pm  Discussion

5:00 pm-5:10 pm  Break

Current Concepts
Moderator:  Lt Col R. Judd Robins, MD, United States Air Force Academy, Colorado Springs, CO

5:10 pm-5:35 pm  Individualizing Rehabilitation in Postoperative Care
John M. Tokish, MD, Steadman Hawkins of the Carolinas, Greenville, SC

5:35 pm-5:40 pm  Discussion

Joint-Service Research Initiative
Moderator:  Lt Col R. Judd Robins, MD, United States Air Force Academy, Colorado Springs, CO

5:40 pm -5:50 pm  Update and Report
MAJ Jonathan F. Dickens, MD, Bethesda, MD

5:50 pm -6:00 pm  Discussion

Thursday, December 15
12:00 am-11:59 pm  Speaker Ready Area

6:00 am-7:00 am  **Service Breakouts**  
Air Force  
Army  
Navy

6:00 am-11:30 am  Meeting Registration

**Symposium 7: Hand**  
Moderator:  Maj Peter C. Rhee, DO, MS, *San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX*

7:00 am-7:25 am  Bone and Cartilage Tumors of the Upper Limb: What Everyone Should Know  
*Peter M. Murray, MD, Mayo Clinic, Jacksonville, FL*

7:25 am-7:30 am  Discussion

**General Session 7: Hand**  
Civilian Moderator:  Peter M. Murray, MD, *Mayo Clinic, Jacksonville, FL*  
Military Moderator:  Maj Peter C. Rhee, DO, MS, *San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX*

7:30 am-7:36 am  Can Wrist Computed Tomography Scans Accurately Predict Femoral Neck Osteoporosis?  
*LT Theodora Dworak, MD, Walter Reed National Military Medical Center, Bethesda, MD*

7:36 am-7:42 am  The Effect Of Skin Pigmentation On Clinical Exam For Determination Of Limb Ischemia In Healthy Controls  
*MAJ Elizabeth Polfer, MD, Walter Reed National Military Medical Center, Bethesda, MD*

7:42 am-7:48 am  Outcomes Following Carpal Tunnel Release In Patients Receiving Workers’ Compensation  
*CPT John Dunn, MD, William Beaumont Army Medical Center, El Paso, TX*  
*Presented by CPT Richard VanTienderen DO*

7:48 am-7:54 am  The Boxer’s Fracture: Is Reduction With Splint Immobilization Necessary? A Systematic Review  
*CPT John Dunn, MD, William Beaumont Army Medical Center, El Paso, TX*

7:54 am-8:00 am  Discussion
8:00 am-8:06 am Functional Outcomes Of Thumb Trapeziometacarpal Arthrodesis With A Locked Plate Versus LRTI
Lieutenant K. J. Hippensteel, MD, Washington University in Saint Louis Orthopedic Surgery, Saint Louis, MO

8:06 am-8:12 am Epidemiology Of Gunshot Wounds To The Hand
Alexander J. Hutchinson, BS, Texas Tech University Health Sciences Center, El Paso, TX

8:12 am-8:18 am Use Of BMP In Scaphoid Nonunion. A Systemic Review
CPT Paul L. Lanier, DO, William Beaumont Army Medical Center, El Paso, TX

8:18 am-8:24 am Anatomic Variation Of The Radial Artery Associated With Clinically Significant Ischemia
MAJ Elizabeth Polfer, MD, Walter Reed National Military Medical Center, Bethesda, MD

8:24 am-8:30 am Discussion

8:30 am-8:45 am Refreshment Break

Rapid Fire Session 3A: Hand
Moderator: LtCol Evan M. Jones, MD, Elmendorf Air Force Base, Anchorage, AK
Lt. Col. Paul D. ‘Chip’ Gleason, MD, Wright Patterson Air Force Base, Dayton, OH

8:45 am-8:49 am Clinical Outcomes Following Posterior Interosseous Nerve Neurectomy For Intractable Wrist Pain: A Systematic Review
CPT John Dunn, MD, William Beaumont Army Medical Center, El Paso, TX
*Presented by CPT Paul Lanier DO

8:49 am-8:53 am Carpometacarpal Fracture Dislocations In The Military: A Retrospective Review
LCDR Robert O Boatwright, MD, Naval Medical Center Portsmouth, Portsmouth, VA

8:53 am-8:57 am Utility Of Wrist Computed Tomography For Population-Based Osteoporosis Screening
LT Theodora Dworak, MD, Walter Reed National Military Medical Center, Bethesda, MD

8:57 am-9:00 am Discussion
9:00 am-9:04 am  Should Arthroscopic Treatment Of Occult Dorsal Wrist Ganglions Be The Gold Standard?
Major Kevin P. Krul, MD, Tripler Army Medical Center, Honolulu, HI

9:04 am-9:08 am  Fracture Risk in Ulnohumeral Arthroplasty - How Does Fenestration Size Influence Structural Integrity?
LT Patrick B. Morrissey, MD, Naval Medical Center San Diego, San Diego, CA
*Presented by LT Ryan Myers, MD

9:08 am-9:12 am  Distal Ulnar Hounsfield Units Accurately Reflect Forearm Bone Mineral Density
LT Theodora Dworak, MD, Walter Reed National Military Medical Center, Bethesda, MD

9:12 am-9:15 am  Discussion

Rapid Fire Session 3B: Spine
Moderator:  Lt. Col. James Dunlap, MD, Wright Patterson Air Force Base, Dayton, OH
Cdr. David E. Gwinn, MD, Walter Reed National Military Medical Center, Bethesda, MD

8:45 am-8:49 am  Can S2-Alar-Iliac (S2ai) Screws Be Placed Accurately Without Fluoroscopy?
MAJ Daniel G. Kang, MD, Madigan Army Medical Center, Tacoma, WA

8:49 am-8:53 am  Complications And Re-Operation Rate Following Cervical Lateral Mass Screw Fixation
MAJ Daniel G. Kang, MD, Madigan Army Medical Center, Tacoma, WA

8:53 am-8:57 am  Cervical Total Disc Arthroplasty Versus Cervical Fusion For The Treatment Of Cervical Spondylosis: Comparative Outcomes And Impact On Military Aviation Waiverability
LTC John R. Reaume, MD, Dwight D. Eisenhower Army Medical Center, Ft Gordon, GA

8:57 am-9:00 am  Discussion

9:00 am-9:04 am  Epidemiology Of Lumbago In United States Military Nurses
CPT Mitchell C. Harris, MD, Tripler Army Medical Center, Honolulu, HI

9:04 am-9:08 am  Safety And Efficacy Of Using Ultrasound Bone Scalpel For Anterior Cervical Corpectomy
CPT Sally Ann Corey, DO, Dwight D. Eisenhower Army Medical Center, Ft Gordon, GA
9:08 am-9:12 am  Direct Dural Wound Vacuum Therapy For Recalcitrant Posterior Instrumented Spinal Fusion: A Case Report And Review Of The Literature  
_LT Shian Liu, MD, Naval Medical Center San Diego, San Diego, CA_

9:12 am-9:15 am  Discussion

**Rapid Fire Session 3C: Shoulder Reconstruction/Pediatric**

**Moderator:**  MAJ Kelly G. Kilcoyne, MD, William Beaumont Army Medical Center/Texas Tech University Health Sciences Center, El Paso, TX  
MAJ Jeremy K. Rush, MD, San Antonio Military Medical Center, Fort Sam Houston, TX

8:45 am-8:49 am  Radiographic Characterization of the B2 Glenoid: The Effect of Computed Tomographic Axis Orientation  
_Maj Dane Salazar, MD, Washington University, St. Louis, MO_

8:49 am-8:53 am  Radiographic Characterization of the B2 Glenoid: Is Inclusion of the Entirety of the Scapula Necessary?  
_Maj Dane Salazar, MD, Washington University, St. Louis, MO_

8:53 am-8:57 am  Functional Outcomes Following Lateral Ulnar Collateral Ligament Reconstruction For Symptomatic Posterolateral Rotatory Instability In An Athletic Population  
_CPT Marnia J. Rodriguez, MD, William Beaumont Army Medical Center, El Paso, TX_

8:57 am-9:00 am  Discussion

9:00 am-9:04 am  Volumetric Considerations For Valving Long-Arm Casts: The Utility Of The Cast Spacer  
_CPT K. Aaron Shaw, DO, Dwight D. Eisenhower Army Medical Center, Fort Gordon, GA_

9:04 am-9:08 am  Biomechanical Analysis of Retrograde Flexible Intramedullary Nail Constructs in a Simulated Pediatric Femur Fracture Model  
_Anthony I. Riccio, MD, Texas Scottish Rite Hospital for Children, Dallas, TX_

9:08 am-9:12 am  Cast Saw Blades: Does A Particular Blade Reduce The Risk Of Thermal Injury?  
_Capt Fortune J. Egbulefu, MD, San Antonio Military Medical Center, San Antonio, TX_

9:12 am-9:15 am  Discussion
# Rapid Fire Session 3D: Adult Reconstruction

**Moderator:** Maj Robert McGill, MD, Joint Base Andrews, Fort Belvoir, VA

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<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tr>
<td>8:45 am-8:49 am</td>
<td>Sonication Cultures Of Arthroplasty Implants Broadens Bacterial Spectrum Identified In Periprosthetic Joint Infections And Aseptic Revisions</td>
<td>Major (Ret) Brian A. Klatt, MD, University of Pittsburgh, Pittsburgh, PA</td>
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<td>8:49 am-8:53 am</td>
<td>Modified Frailty Index Is An Effective Risk Assessment Tool In Primary Total Knee Arthroplasty</td>
<td>MAJ Jaime L. Bellamy, DO, Emory University Orthopaedics &amp; Spine Hospital, Atlanta, GA</td>
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<td>8:53 am-8:57 am</td>
<td>Can We Eliminate Pre-Operative Flexion Contracture As A Contraindication To Unicompartmental Knee Arthroplasty?</td>
<td>CPT Richard L. Purcell, MD, Walter Reed National Military Medical Center, Bethesda, MD</td>
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<td>8:57 am-9:00 am</td>
<td>Discussion</td>
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<td>9:00 am-9:04 am</td>
<td>Cost Savings in Orthopaedic Total Joint Arthroplasty Care</td>
<td>LT Daniel J. Houskamp, MD, Naval Medical Center San Diego, San Diego, CA</td>
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<td>9:04 am-9:08 am</td>
<td>Kinematic Total Knee Arthroplasty Using Asymmetric Components With Neutral Mechanical Alignment: The Best Of Both Worlds?</td>
<td>LCDR Brian T. Barlow, MD, Naval Medical Center San Diego, San Diego, CA</td>
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<td>9:08 am-9:12 am</td>
<td>Total Knee Arthroplasty for Posttraumatic Osteoarthritis in Military Personnel Under Age 50 Running Title: Arthroplasty for PTOA</td>
<td>Capt Andrew S. Murtha, MD, San Antonio Military Medical Center, Ft Sam Houston, TX</td>
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<td>9:12 am-9:15 am</td>
<td>Discussion</td>
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# AAOS Report & Business Meeting

**Moderator:** Lt Col Mark A. Slabaugh, MD, United States Air Force Academy, Colorado Springs, CO

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<tr>
<td>9:20 am-9:40 am</td>
<td>AAOS Update</td>
<td>Gerald R. Williams Jr., MD American Academy of Orthopaedic Surgeons</td>
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<td>9:40 am-9:50 am</td>
<td>Business Meeting</td>
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<td>President, The Rothman Institute, Philadelphia, PA</td>
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Symposium 8: Shoulder
Moderator: LCDR James E. Hammond, MD, *Portsmouth Naval Hospital, Suffolk, VA*

10:00 am-10:25 am  
Shoulder Arthroplasty: Past, Present, and Future  
*Gerald R. Williams Jr., MD, The Rothman Institute, Philadelphia, PA*

10:25 am-10:30 am  Discussion

General Session 8: Shoulder
Civilian Moderator: Gerald R. Williams Jr., MD, *The Rothman Institute, Philadelphia, PA*
Military Moderator: LCDR James E. Hammond, MD, *Portsmouth Naval Hospital, Suffolk, VA*

10:30 am-10:36 am  Arthroscopic Versus Open Anterior Shoulder Stabilization: A Prospective Randomized Clinical Trial With 14 Year Follow-up  
*CPT John D. Johnson, DO, Tripler Army Medical Center, Honolulu, HI*

10:36 am-10:42 am  Evaluation Of The Instability Severity Index Score In Predicting Failure Following Arthroscopic Bankart Surgery In An Active US Military Population  
*CPT Andrew Chan, MD, William Beaumont Army Medical Center, El Paso, TX*

10:42 am-10:48 am  Failure And Complication Rates Of Proximal Biceps Tenodesis With unicortical Suture Button In The Early Postoperative Period  
*MAJ Jay B. Cook, MD, Winn Army Community Hospital, Fort Stewart, GA*

10:48 am-10:54 am  A Prospective Analysis Of Patients With Anterior Versus Posterior Shoulder Instability: A Matched Cohort Examination And Surgical Outcomes Analysis Of 198 Patients  
*CAPT Matthew Provencher, MD, The Steadman Clinic, Vail, CO*

10:54 am-11:00 am  Discussion

11:00 am-11:06 am  Mid-Term Radiographic Progression of Arthritis in Shoulders with Degenerative Arthritis Rotator Cuff Tears  
*Maj Dane Salazar, MD, Washington University, St. Louis, MO*

11:06 am-11:12 am  Surgical Outcomes Following Inpatient Versus Outpatient Total Shoulder Arthroplasty: Characterizing The Patient Demographic  
*Adam Streit, DO, William Beaumont Army Medical Center, El Paso, TX*
11:12 am-11:18 am  A Comparison Of “On-Track” And “Off-Track” Assessment With Clinical Failure In A 13-Year Follow-Up Of Open Versus Arthroscopic Shoulder Stabilizations  
*CPT Liang Zhou, MD, Tripler Army Medical Center, Honolulu, HI*

11:18 am-11:24 am  All Arthroscopic Treatment Of Anterior Shoulder Instability In The Setting Of Sub-Critical Glenoid Bone Loss  
*CPT(P) Michael A. Donohue, MD, Walter Reed National Military Medical Center, Bethesda, MD*

11:24 am-11:30 am  Discussion

11:30 am-12:30 pm  **Scientific E-Poster Session** (Presenters will be available to answer questions.)

12:30 pm-1:30 pm  **Multimedia Education Session**

**Friday, December 16**

12:00 am-11:45 am  Speaker Ready Area

6:30 am-7:00 am  **Scientific E-Poster Session** (Presenters will be available to answer questions.)

6:30 am-11:50 am  Meeting Registration

**Symposium 9: Adult Reconstruction**  
**Moderator:** LTC Creighton Tubb, MD, *San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX*

7:00 am-7:25 am  Title  
*Wael K. Barsoum, MD, Cleveland Clinic, Cleveland, OH*

7:25 am-7:30 am  Discussion

**General Session 9: Adult Reconstruction**  
**Civilian Moderator:** Wael K. Barsoum, MD, *Cleveland Clinic, Cleveland, OH*  
**Military Moderator:** LTC Creighton Tubb, MD, *San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX*

7:30 am-7:36 am  Effect Of Surgical Approach And Intraoperative Imaging On Acetabular Component Alignment In Total Hip Arthroplasty  
*CAPT Sarah N. Pierrie, MD, Carolinas Medical Center, Charlotte, NC*
7:36 am-7:42 am  The Effectiveness Of Combined Thrombin-Collagen And Autologous Platelet-Rich Plasma In Total Hip Arthroplasty, A Prospective, Randomized Controlled Trial
   *Eric N. Bowman, MD, MPH, Campbell Clinic, Memphis, TN*

7:42 am-7:48 am  Use Of Fluoroscopy In Direct Anterior Total Hip Arthroplasty: Technique, Radiation Exposure, And Fluoroscopy Time During The Learning Curve
   *Maj Andrew S. Malin, MD, Eglin Air Force Base, Valparaiso, FL*

7:48 am-7:54 am  Comparison Of Wound Complications And Deep Infections With Direct Anterior And Posterior Total Hip Arthroplasty Approaches In Obese Patients
   *CPT Richard L. Purcell, MD, Walter Reed National Military Medical Center, Bethesda, MD*

7:54 am-8:00 am  Discussion

8:00 am-8:06 am  Liposomal Bupivacaine in Total Hip Arthroplasty: Do the Results Justify the Cost?
   *Capt Jason Beachler Sr., MD, San Antonio Military Medical Center, Ft Sam Houston, TX*

8:06 am-8:12 am  Utility Of Intraoperative Fluoroscopic Positioning Of THA Components
   *CPT Christopher Belyea, MD, MBA, Tripler Army Medical Center, Honolulu, HI*

8:12 am-8:18 am  Sonication Of Arthroplasty Implants Improves The Diagnostic Accuracy Of Periprosthetic Joint Infection Cultures
   *Major (Ret) Brian A. Klatt, MD, University of Pittsburgh, Pittsburgh, PA*

8:18 am-8:24 am  Modified Frailty Index Is An Effective Risk Assessment Tool In Primary Total Hip Arthroplasty
   *MAJ Jaime L. Bellamy, DO, Emory University Orthopaedics & Spine Hospital, Atlanta, GA*

8:24 am-8:30 am  Discussion

**Symposium 10: Spine**

8:30 am-8:55 am  Title
   *James D. Kang, MD, Brigham and Women’s Hospital, Boston, MA*

8:55 am-9:00 am  Discussion

9:00 am-9:15 am  Refreshment Break
General Session 10: Spine

Civilian Moderator: James D. Kang, MD, Brigham and Women's Hospital, Boston, MA
Military Moderator: Lt. Col. James Dunlap, MD, Wright Patterson Air Force Base, Dayton, OH

9:15 am-9:21 am  Does Single- Versus Two-Stage Pedicle Subtraction Osteotomy In Spinal Deformity Surgery Influence Perioperative Complications? MAJ Daniel G. Kang, MD, Madigan Army Medical Center, Tacoma, WA

9:21 am-9:27 am  Structural Adaptations Of Paraspinal Musculature In Active-Duty Marines With Intervertebral Disc Degeneration ENS Jessica R. Stambaugh, University of California, San Diego School of Medicine, San Diego, CA

9:27 am-9:33 am  Orthopaedics Versus Neurosurgery: Differences In Surgical Outcomes Following Anterior Spinal Fusion CPT Tyler Trevino, MS, Texas Tech University Health Sciences Center, El Paso, TX

9:33 am-9:39 am  Non-Accidental Spinal Trauma In Very Young Children: A Nationwide Perspective Over A Seven Year Period CPT Zackary A. Johnson, MD, Tripler Army Medical Center, Honolulu, HI

9:39 am-9:45 am  Discussion

9:45 am-9:51 am  Subsidence After Transforaminal Lumbar Interbody Fusion: Effect On Lumbopelvic Sagittal Alignment And Clinical Outcomes LCDR Theodore J. Steelman, MD, Walter Reed National Military Medical Center, Bethesda, MD

9:51 am-9:57 am  Lumbar Disc Space Preparation With Cone Beam-Computed Tomography And Navigation: A Cadaveric Study CPT Richard K. Hurley, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

9:57 am-10:03 am  The Incidence Of Lumbar Disc Herniation In Military Helicopter Pilots Versus Matched Controls Over A 10 Year Period CPT James B. Deal, MD, Tripler Army Medical Center, Honolulu, HI

10:03 am-10:09 am  Diagnosing The Undiagnosed: Osteoporosis In Patients Undergoing Lumbar Fusion Capt Peter Formby, MD, Walter Reed National Military Medical Center, Bethesda, MD

*Presented by LCDR Theodore J. Steelman, MD*
10:09 am-10:15 am  Discussion

10:15 am-10:25 am  Refreshment Break

**Symposium 11: Tumor**
Moderator: LTC Joseph F. Alderete Jr., MD, *San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX*

10:25 am-10:50 am  Current Considerations in Sarcoma Surgery  
*R. Lor Randall, MD, Huntsman Cancer Institute, Salt Lake City, UT*

10:50 am-10:55 am  Discussion

**General Session 11: Tumor**
Civilian Moderator: R. Lor Randall, MD, *Huntsman Cancer Institute, Salt Lake City, UT*  
Military Moderator: LTC Joseph F. Alderete Jr., MD, *San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX*

10:55 am-11:01 am  The Role Of Surgical Resection In Pelvic Ewing Sarcoma: A Retrospective Case Series  
*CPT Sean Kelly, MD, Brooke Army Medical Center, Ft Sam Houston TX*

11:01 am-11:07 am  Long Term Results Of Segmental Intercalary Replacement Of Long Bones Following Tumor Resection And Evolution Of Technique  
*LTC Joseph F. Alderete, MD, Brooke Army Medical Center, Ft Sam Houston TX*

11:07 am-11:13 am  Juxta-Articular Osteoid Osteoma of the Knee: A Case Report  
*CPT Matti P. Asuma, MD, Madigan Army Medical Center, Tacoma, WA*

11:13 am-11:20 am  Discussion

11:20 am-11:26 am  Metastatic Bladder Cancer To The Proximal Femur - A Case Report, *CPT Sally Ann Corey, DO, Dwight D. Eisenhower Army Medical Center, Ft Gordon, GA*

11:26 am-11:32 am  Carcinoma Mimicking Sarcoma: A Case of Metastatic Myoepithelial Carcinoma  
*Capt Tierney A. Shannon, MD, San Antonio Military Medical Center, Ft. Sam Houston, TX*

11:32 am-11:38 am  Intrasite Vancomycin Powder Reduces Infection Rate Following Posterior Spinal Fusion For Spinal Tumors  
*MAJ Daniel G. Kang, MD, Madigan Army Medical Center, Tacoma, WA*
11:38 am-11:45 am  Discussion

11:45 am -12:45 pm  Multimedia Education Session
2016 E-Poster Presentations

**Adult Reconstruction**

Dual Mobility Implants are Cost-Saving for Primary THA: A Cost-Utility Analysis Using Direct and Indirect Costs  
*LCDR Brian T. Barlow, MD, Naval Medical Center San Diego, San Diego, CA*

Modified Precautions In Posterior Approach THA: Rapid Recovery And Low Dislocation Rates  
*LCDR Brian T. Barlow, MD, Naval Medical Center San Diego, San Diego, CA*

Normalization Of Metal Ion Levels After Revising Metal On Polyethylene Bearings In Total Hip Arthroplasty  
*MAJ Jaime L. Bellamy, DO, Emory University Orthopaedics & Spine Hospital, Atlanta, GA*

Screening Dental Disease; Do Race/Income Play a Role?  
*Major (Ret) Brian A. Klatt, MD, University of Pittsburgh Department of Orthopaedic Surgery, Pittsburgh, PA*

Minimum 25 Year Follow Up Of A Cementless Anatomic Femoral Design: As Good As A Cemented Fixation?  
*CPT Sean E. Slaven, MD, Walter Reed National Military Medical Center, Bethesda, MD*

**Basic Science**

Optimal Protein Intake in Athletes  
*Capt Mathew L. Resnick, DO, Westchester General Hospital/ Tinker AFB, Miami, FL*

**Foot & Ankle**

Isolated Subtalar Arthrodesis For Avascular Necrosis Of The Talus  
*Captain Travis J. Dekker, MD, Duke University, Durham, NC*

Characterization And Incidence Of Missed Posterior Malleolus Fractures  
*CPT Shawn Gee, MD, Tripler Army Medical Center, Honolulu, HI*  
*Presented by CPT Mitchell C. Harris, MD*

Mid-Term Results And Functional Outcomes Of Mini-Open Achilles Tendon Repairs In U.S. Military Service Members  
*CPT Kenneth Heida, MD, William Beaumont Army Medical Center, El Paso, TX*

Arthroscopic Debridement And Percutaneous Suture Button Fixation For Treatment Of Chronic Ankle Syndesmosis Injuries In Active Duty Population  
*LT Nicholas P. Perry, MD, Naval Medical Center San Diego, San Diego, CA*
Clinical Outcome Following Extracorporeal Shock Wave Therapy For Chronic Plantar Fasciitis
*CPT Richard L. Purcell, MD, Walter Reed National Military Medical Center, Bethesda, MD*

Simple 1-Step Ankle Arthroscopy Distraction
*CPT Alicia M. Unangst, DO, Fort Bliss, El Paso, TX*

Simplified Setup to Achieve Distraction for Toe Arthroscopy
*CPT Alicia M. Unangst, DO, Fort Bliss, El Paso, TX*

Posterior Ankle Arthroscopic Fracture Reduction With Internal Fixation
*CPT Alicia M. Unangst, DO, Fort Bliss, El Paso, TX*

**Infection**

Necrotizing Infection Of A Closed Proximal Humerus Fracture
*LT Erica K. Crump, MD, Naval Medical Center San Diego, San Diego, CA*

Community-Acquired MRSA Rotator Cuff Pyomyositis And Scapular Osteomyelitis In Immunocompetent Pediatric Patient
*LT Nicholas P. Perry, MD, Naval Medical Center San Diego, San Diego, CA*

**Knee**

Delayed Osteochondral Allograft Due To New Diagnosis Of Ochronosis
*LT Vanna Rocchi, DO, Naval Medical Center San Diego, San Diego, CA*

**Other**

Iatrogenic Instability Following Hip Arthroscopy: A Series Of Two Cases Treated With Periacetabular Osteotomy
*Maj Andrew J. Sheean, MD, San Antonio Military Medical Center, San Antonio, TX*

**Pediatrics**

Benign Acute Childhood Myositis – A Rare Cause Of Abnormal Gait
*LT Gregory W. Hall, MD, Naval Medical Center Portsmouth, Portsmouth, VA*

A Case Report of Talocalcaneal Coalition and Subtalar Ganglion Cyst: 5-year Postoperative Follow-up
*LT Vanna Rocchi, DO, Naval Medical Center San Diego, San Diego, CA*
Mechanical Testing Of Epiphysiodesis Screws
*CPT David J. Tennent, MD, San Antonio Military Medical Center, Ft Sam Houston, TX*

**Practice Management/Education**

Contact Dermatitis Reaction to 2-Octylecyanacrylate Following Two Orthopaedic Procedures: A Case Series and Literature Review
*LT Nicholas H. Lake, MD, Naval Medical Center San Diego, San Diego, CA*

**Shoulder/Elbow**

Recurrence And Return To Play Rates In Open Versus Arthroscopic Anterior Shoulder Stabilization In The Collision And Contact Athlete: A Systematic Review
*CPT Alaina Brelin, MD, Walter Reed National Military Medical Center, Bethesda, MD*

The Correlation Between CTA, MRA and Arthroscopic Findings in Young Adults with Shoulder Complaints
*MAJ Oded Hershkovich, MD, MHA, Sheba Medical Center, Ramat Gan, Israel*

Survey Of Shoulder Arthroplasty Surgeons’ Methods For Infection Avoidance
*MAJ Stephen Parada, MD, Eisenhower Army Medical Center, Ft Gordon, GA*

**Spine**

Thoracic Disc Herniation With Concomitant Lumbar Spinal Stenosis Resulting In Epidural Compression Syndrome In A Renal Transplant Patient
*CPT Anthony T. Mustovich, DO, Dwight D. Eisenhower Army Medical Center, Augusta, GA*

**Sports Injuries**

Atlantic Coast Conference Mandatory College Football Medical Observer. A Necessary Addition to the Preexisting Medical Team?
*LCDR James Bailey, MD, Duke University, Durham, NC*

Morphologic Distribution Of The Anterior Inferior Iliac Spine In Patients With And Without Hip Impingement: Reliability, Validity, And Relationship To Intraoperative Assessment
*LCDR George C. Balazs, MD, Walter Reed National Military Medical Center, Bethesda, MD*

Correlating Blumensaat’s Line To Native Acl Length For Graft Length Determination In Acl Reconstruction
*LT Alanna B. Balboni, MD, Naval Medical Center Portsmouth, Portsmouth, VA*
Retrospective Analysis Of Hip Arthroscopy Patients To Analyze Most Frequently Encountered Complications In The Military Population  
LCDR Andrew B. Bernhardson, MD, Naval Medical Center San Diego, San Diego, CA

Has There Been A Paradigm Shift In The Treatment Of SLAP Tears? An Investigation Of SLAP Repairs And Biceps Tenodesis In The Young Active Military Population  
CPT(P) Michael A. Donohue, MD, Walter Reed National Military Medical Center, Bethesda, MD

Clinical Results Of Subpectoral Biceps Tenodesis Using A Single Unicortical Anchor: A Retrospective Review Of Prospective Data  
MAJ Kelly F. Fitzpatrick, DO, Madigan Army Medical Center, Tacoma, WA

Contemporary Incidence and Epidemiology of in the United States Military  
CPT Baris Gun, DO, William Beaumont Army Medical Center, El Paso, TX

Trunk And Lower Extremity Kinematics And Stress Fracture Risk Factors Influence Biomarkers Of Bone Turnover During Cadet Basic Training  
Timothy C. Mauntel, MA, ATC, Walter Reed National Military Medical Center, Bethesda, MD

Low Risk For Local And Systemic Complications After Primary Repair Of 1626 Achilles Tendon Ruptures  
CPT Nicholas Rensing, MD, William Beaumont Army Medical Center, El Paso, TX

Ambulatory Physical Activity During The Initial Training Phase In Naval Commando And Submarine Units  
LTC Shachar D. Shapira, MD, MHA, Israel Defense Force, Medical Corps, Hod Hasharon, Israel

Changes In Testosterone Levels After Arthroscopic Surgery: A Pilot Study  
LT Matthew J. Wilson, MD, Naval Medical Center Portsmouth, Portsmouth, VA

Trauma

Understanding the Influence of Malnutrition on Outcomes Following Orthopaedic Trauma: A Systematic Review  
MAJ Jaime L. Bellamy, DO, Emory University Orthopaedics & Spine Hospital, Atlanta, GA

3D Printing In Orthopaedic Trauma Surgery: A Review Of Current Literature  
Capt George A. Cibulas, PharmD, MD, University of Michigan Department of Orthopaedic Surgery, Ann Arbor, MI

The Use Of Mini Fragment Plates To Decrease The Rate Of Hardware Removal In Clavicles Treated With Open Reduction Internal Fixation  
LT David A. Feaker, DO, Naval Medical Center Portsmouth, Portsmouth, VA
Mechanical Failure of Precice Femoral Lengthening Nail: A Case Report
LT Wei Wei Wu, MD, Naval Medical Center San Diego, San Diego, CA

**War Trauma/Military Medicine**

The Future of Three Dimensional Printing in Military Orthopaedic Surgery
Major Abigail A. Johnson, MA (Cantab) MB BS DMCC, Addenbrooke’s Hospital
Cambridge, United Kingdom

Description Of The Patient's Health Profile Veteran PMC Afghanistan Based On An Assessment Of Post-Traumatic Musculoskeletal Injuries
LTC Marcin M. Wojtkowski, MD, Institute of Military Medicine, Warsaw, Poland