SOCIETY OF MILITARY ORTHOPAEDIC SURGEONS
PRELIMINARY PROGRAM
57th Annual Meeting
December 7-11, 2015
The Vinoy Renaissance Hotel
St. Petersburg, FL

ACCREDITATION INFORMATION

PROGRAM COMMITTEE
MAJ Travis C. Burns, MD – Co-Chair
Maj Matthew R. Schmitz, MD, FAAP – Co-Chair
CDR Charles E. Craven Jr., MD
MAJ Jonathan F. Dickens, MD
LTC Anthony E. Johnson, MD
CPT Chad A. Krueger, MD
Lt Col Mark Slabaugh, MD
LCDR 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 57th 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 39.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

*8.75 Monday ABOS Board Review
*20 CME Credits for Scientific Program
*5 CME Credits for Scientific E-Poster Sessions
*6 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 2015 Society of Military Orthopaedic Surgeons (SOMOS) 57th 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 2015 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 7-11, 2015 from approximately 0700 – 1530.

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 8-11 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 8-11, at the designated times. A comprehensive selection of AAOS DVDs will be available for your individual education.
SOMOS Scientific Program

Monday, December 7

1200-2100  Meeting Registration

1200-2400  Speaker Ready Area

ABOS Board Review – Basic Science and MSK Oncology Review

0730-1530  Basic Science and MSK Oncology Review
  *Frank J. Frassica, MD, Medstar Orthopaedics, Franklin Square Hospital, Baltimore, MD*

1130-1245  Lunch Break

ABOS Board Review – Pediatrics

1530-1630  Pediatric Review
  *Maj Matthew R. Schmitz, MD, FAAP, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX*

ABOS Board Review – Spine

1630-1730  Spine Review
  *Brett Freedman, MD, Mayo Clinic, Rochester, MN*

Tuesday, December 8

1200-2400  Speaker Ready Area

0630-1550  Meeting Registration

0600-0700  Scientific E-Poster Session (Presenters will be available to answer questions.)

Opening Ceremony
Moderators:  Maj Matthew R. Schmitz, MD, FAAP, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX
  MAJ Travis C. Burns, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX
  LTC Anthony E. Johnson, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX
0700-0710  Color Guard

0710-0720  Report of SOMOS President
LTC Anthony E. Johnson, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

0720-0730  CDR Michael T. Mazurek Clinician Scholar Award Presentation
MAJ Travis C. Burns, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

0730-0740  COL Brian Allgood Memorial Leadership Award Presentation
LTC Anthony E. Johnson, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

Symposium 1: Trauma Pelvis/Lower Extremity
Moderator: LtCol Christopher LeBrun, MD, C-STARS (Center for the Sustainment of Trauma and Readiness Skills), Baltimore, MD

0740-0820  Title TBA
CAPT (Ret) Michael J. Bosse, MD, Carolinas Medical Center, Orthopaedic Surgery, Charlotte, NC

0820-0825  Discussion

0825-0845  Break With Exhibits

Concurrent General Session 1: Trauma Pelvis/Lower Extremity
Civilian Moderator: CAPT (Ret) Michael J. Bosse, MD, Carolinas Medical Center, Orthopaedic Surgery, Charlotte, NC
Military Moderators: LtCol Christopher LeBrun, MD, C-STARS (Center for the Sustainment of Trauma and Readiness Skills), Baltimore, MD
Maj Jarrod E. Dumpe, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX
MAJ Daniel Stinner, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

0845-0850  Ultrasound-Assisted External Fixation: A Technique For Austere Environments
LCol Max Talbot, MD, FRCS, McGill University Health Center, Montreal, Canada

0850-0855  Does Time To Surgery For Femur Fractures In Polytrauma Patients Affect In-Hospital Morbidity Or Mortality?
CPT Nicholas Kusnezov, MD, William Beaumont Army Medical Center, El Paso, TX
0855-0900 Pin Malposition In External Fixator Stabilization Of Combat-Related Pelvic Fractures
LCDR Dustin Schuett, DO, Naval Medical Center San Diego, San Diego, CA

0900-0905 Treatment And Outcomes Of Patients With Ipsilateral Acetabular And Femur Fractures
CPT Justin M. Hire, MD, Palmetto Health Richland Hospital Level 1 Trauma Center, Columbia, SC

0905-0910 Discussion

0910-0915 Predictors Of Mortality And Major Systemic Complications Following Acetabular Fractures
CPT Nicholas Kusnezov, MD, William Beaumont Army Medical Center, El Paso, TX

0915-0920 Return To Duty In Military Members Following Surgical Treatment Of Incomplete Femoral Neck Fractures
LT Clare E. Griffis, MD, Naval Medical Center San Diego, San Diego, CA
*Presented by LT Vanna Rocchi, DO

0920-0925 Chondrocyte Viability Following A Simulated Blast Exposure
CPT K. Aaron Shaw, DO, Dwight David Eisenhower Army Medical Center, Fort Gordon, GA
*Presented by CPT Peter C. Johnson, MD

0925-0930 Limb Salvage Versus Transtibial Amputation: A Comparison of Functional Gait Outcomes
LCDR Katharine I. Mangan, MD, Naval Medical Center San Diego, San Diego, CA

0930-0935 Discussion

Concurrent ABOS Board Review – Foot & Ankle

0845-0935 Foot & Ankle Review
Ross Schumer, MD San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

Symposium 2: Trauma Upper Extremity
Moderator: MAJ Michael Beltran, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

0935-1015 Title TBA
Hassan Mir, MD, Florida Orthopaedic Institute, Tampa, FL
1015-1020 Discussion

1020-1040 Break With Exhibits

General Session 2: Trauma Upper Extremity
Civilian Moderator: Hassan Mir, MD, Florida Orthopaedic Institute, Tampa, FL
Military Moderators: MAJ Michael Beltran, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX
MAJ Brian Grogan, MD, Carl R. Darnall Army Medical Center, Ft. Hood, TX
LCDR Michael Kuhne, MD, Orthopaedic Trauma Institute, San Francisco, CA

1040-1045 Being Prepared For The Next Conflict: A Case Analysis Of A Military Level 1 Trauma Center
Predictors Of Persistent Pain After Distal Clavicle Fracture
2LT Haydn Roberts, BS, Brooke Army Medical Center, San Antonio, TX

1045-1050 Orthopedic Management Of Injuries In A Major Natural Disaster: Experience Of The Orthopedic Department In A Field Hospital Following The April 2015 Earthquake In Nepal
LTC Arnon Gam, MD, Israel Defense Forces Medical Corps, Tel Hashomer, Israel

1050-1055 Musculoskeletal Injuries And Diseases Treated In A Field Hospital Following The Haiyan Typhoon In The Philippines
LTC Arnon Gam, MD, Israel Defense Forces Medical Corps, Tel Hashomer, Israel

1055-1100 Predictors Of Persistent Pain After Distal Clavicle Fracture
CPT Paul Joseph Lanier, DO, William Beaumont Army Medical Center, El Paso, TX

1100-1105 Discussion

1105-1110 Lateral External-Fixation Adjacent To Radial Nerve (LEARN)
CAPT Benjamin F. Plucknette, DO, DPT, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

1110-1115 Reliability Of Unilateral Clavicle Radiographs Versus Panoramic Shoulder Girdle Radiographs In Evaluating Midshaft Clavicle Fracture Shortening
LCDR Ryan P. Ponton, MD, Naval Medical Center San Diego, San Diego, CA

1115-1120 Occupational Outcomes Of Service Members After Sustaining Combat Gunshot Wounds
CPT Matthew D. Laughlin, DO, William Beaumont Army Medical Center, El Paso, TX
1120-1125 Anteroinferior 2.7-Mm Versus 3.5-Mm Plating Of The Clavicle: A Mechanical Study
  LT Nicholas Pulos, MD, Hospital of the University of Pennsylvania, Philadelphia, PA

1125-1130 Decreasing Infection In Traumatic Orthopaedic Wounds With Local Antibiotics: A Contaminated Fracture Model
  CPT David J. Tennent, MD, United States Institute of Surgical Research, Ft Sam Houston, TX

1130-1137 Discussion

Rapid Fire Trauma A: Amputations
Moderators: Michael J. Bosse, MD, Carolina Medical Center, Charlotte, NC
  MAJ Daniel Stinner, MD, US Army Institute of Surgical Research, JBSA-Fort Sam Houston, TX

1140-1144 Nonunion Is A Significant Risk Factor For Subsequent Lower Extremity Amputation In Combat-Related Tibial Injuries
  LT Matthew G. Hanley, MD, Walter Reed National Military Medical Center, Bethesda, MD

1144-1148 Predictors of Outcome in Traumatic Amputations in Operation Enduring Freedom
  Capt Brandon W. Godfrey, MD, University of Nevada School of Medicine, University Medical Center, Las Vegas, NV

1148-1152 Risk Stratification For Heterotopic Ossification In Residual Limbs Of Blast Related Amputations
  Major Dafydd Sion Edwards, FRCS (Tr&Orth), The Royal British Legion Centre for Blast Injury Studies, London

1152-1158 Discussion

1158-1202 Early Disabling Back Pain Following Major Extremity Amputation
  CPT James N. Foster, MD, Brooke Army Medical Center, JBSA-Fort Sam Houston, TX

1202-1206 Predictors Of Acute Complications Following Traumatic Upper Extremity Amputation: An Analysis Using The National Trauma Databank
  CPT Tuesday F. Fisher, MD, William Beaumont Army Medical Center, El Paso, TX

1206-1210 Infectious Speciation Is Associated With Failed Limb Salvage In Combat-Related Tibia Amputations
LT Matthew G. Hanley, MD, Walter Reed National Military Medical Center, Bethesda, MD

1210-1215 Discussion

**Rapid Fire Trauma B: Vascular Injury**

**Moderator:** Hassan Mir, MD, *Florida Orthopaedic Institute, Tampa, FL*
MAJ Michael Beltran, MD, *San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX*

1140-1144 Vascular Injuries In Combat-Specific Soldiers During Operation Iraqi Freedom And Operation Enduring Freedom
*CPT John C. Dunn, MD, William Beaumont Army Medical Center, El Paso, TX /Brigham and Women’s Hospital, Harvard Medical School, Boston, MA*

*CPT John C. Dunn, MD, William Beaumont Army Medical Center, El Paso, TX*

1148-1154 Discussion

1154-1158 The Israeli Silicon Stretch And Wrap Tourniquet May Be Non Inferior To The C-A-T Tourniquet In Producing Occlusive Pressure In A Model Of Mid-Thigh Level Application
*MAJ Ran Ankory, MD, Israeli Medical Corps, Herzlia*

1158-1202 Utility Of CT Angiography In The Initial Evaluation Of Lower Extremity Trauma
*CPT Sean P. Kelly, MD, Brooke Army Medical Center, San Antonio, TX*

1202-1210 Discussion

**Rapid Fire Trauma C: Lower Extremity Trauma and Miscellaneous**

**Moderators:** LCDR Michael Kuhne, MD, *Orthopaedic Trauma Institute, San Francisco, CA*
MAJ Brian Grogan, MD, *Carl R. Darnall Army Medical Center, Ft. Hood, TX*

1140-1144 Ankle Fracture Fixation Using Fibular Intramedullary Nail In High Risk Patients
*CPT Emmanuel D. Eisenstein, MD, Texas Tech University Health Science Center, El Paso, TX*

1144-1148 New Technique For Obtaining Bone Graft Using Reamer Irrigator Aspirator By Retrograde Passage Of The Reamer Through The Non Union Site In Cases Of Distal Femur Non Union
*CPT Emmanuel D. Eisenstein, MD, Texas Tech University Health Science Center, El Paso, TX*
1148-1152 A Custom Energy Storage And Delivery Dynamic AFO: Prescription Patterns Based On Injury Category
LTC Owen Hill, PhD, Brooke Army Medical Center, Ft. Sam Houston, TX

1152-1158 Discussion

1158-1202 Use Of Partial Weight Bearing Treadmill For Early Rehabilitation Following Lower Extremity Trauma
Capt Aaron E. Barrow, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

1202-1206 Early Revision Surgery For Tibial Plateau Fractures
LT Dominic Van Nielen, MD, Naval Medical Center Portsmouth; Portsmouth, VA/Academic Medical Center, University of Amsterdam, Amsterdam/Netherlands Hospital for Special Surgery, New York, NY

1206-1210 Ankle Fracture Classification by Army Physician Assistants
MAJ Christopher B. Cordova, PA-C, William Beaumont AMC, El Paso, TX

1210-1215 Discussion

Rapid Fire Trauma D: Upper Extremity Trauma and Miscellaneous
Moderators:  CDR George Nanos, MD, Walter Reed National Military Medical Center, Bethesda, MD
Maj Jarrod E. Dumpe, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

1140-1144 Human Dermal Allograft Matrix For The Treatment Of Combat Related Soft Tissue Injury
CPT Shawn E. Boomsma, DO, Dwight D. Eisenhower Army Medical Center, Fort Gordon, GA

1144-1148 Closed Pancarpometacarpal Dislocation: A Case Report
LT Hannah Kirby, MD, Naval Medical Center San Diego, San Diego, CA

1148-1152 Clinical Outcomes In Proximal Upper Extremity Amputees Following Targeted Muscle Reinnervation
Capt Brad Hyatt, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

1152-1158 Discussion

1158-1202 Primary Repair Of Traumatic Distal Bicep Ruptures: Effect Of 1 Vs. 2-Incision Technique
Lorenzo Navarro, PA-C, William Beaumont Army Medical Center, El Paso, TX
1202-1206 The Electronic Medical Record: Does It Accurately Reflect The Trauma Patient?

CAPT Irshad Shakir, MD, Saint Louis University School of Medicine, Saint Louis, MO

1206-1210 Reoperation After In-Theater Combat Spine Surgery

CPT Peter M. Formby, MD, Walter Reed National Military Medical Center, Bethesda, MD

1210-1215 Discussion

1215-1315 Lunch Workshops

Symposium 3: Reconstruction

Moderator: LTC Creighton Tubb, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

1315-1355 Surgical Education – Past, Present and Future

Larry Marsh, MD, University of Iowa, Iowa City, IA

1355-1400 Discussion

Concurrent General Session 3: Reconstruction

Civilian Moderator: Larry Marsh, MD, University of Iowa, Iowa City, IA

Military Moderators: LTC Creighton Tubb, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

LtCol Steven Hospodar, MD, Barksdale Air Force Base, Bossier City, LA

CDR Michael Rob Fraser, MD, Naval Medical Center San Diego, San Diego, CA

1400-1405 The Total Joint Arthroplasty Cardiac Risk Index For Predicting Perioperative Myocardial Infarction And Cardiac Arrest Following Primary Total Knee And Hip Arthroplasty

COL Philip J. Belmont, MD, William Beaumont Army Medical Center, El Paso, TX

*Presented by MAJ Brian R. Waterman, MD

1405-1410 Return To Work And Functional Outcomes Of Medial Unicondylar Knee Arthroplasty In U.S. Military Servicemembers

CPT Kenneth Heida, MD, William Beaumont Army Medical Center, El Paso, TX

*Presented by CPT Marina Rodriguez, MD

1410-1415 Autologous Platelet Concentrate Reduces Transfusion Rates In Total Knee Arthroplasty

CPT Jeremy M. Jacobs, MD, Dwight David Eisenhower Army Medical Center, Fort Gordon, Augusta, GA
1415-1420 Incidence And Indications For The Use Of Stems In Total Knee Arthroplasty: Review Of A Single Institution’s Experience Over A Four Year Period
*LT Brian Barlow, MD, Hospital for Special Surgery, New York, NY*

1420-1425 Discussion

1425-1430 Liposomal Bupivacaine Versus Continuous Femoral Infusions Following Total Knee Arthroplasty
*CPT Peter M. Formby, MD, Walter Reed National Military Medical Center, Bethesda, MD*

1430-1435 What Are Normal Metal Ion Levels After Total Hip Arthroplasty? A Serologic Analysis of Five Bearing Surfaces
*LT Brian Barlow, MD, Hospital for Special Surgery, New York, NY*

1435-1440 Lumbar Plexus Catheters Versus Infiltration With Liposomal Bupivacaine In THA
*CPT Peter M. Formby, MD, Walter Reed National Military Medical Center, Bethesda, MD*

1440-1445 Intraoperative Fluoroscopy With A Direct Anterior Approach Reduces Variation In Cup Abduction
*MAJ Gens P. Goodman, DO, Anderson Orthopaedic Research Institute, Alexandria, VA*

1445-1450 Discussion

**Concurrent ABOS Board Review – Sports**

1400-1450 Sports Review
*Ivan Antosh, MD, Carl R. Darnall Army Medical Center, Ft. Hood, TX
Nathan Marsh, MD, Keller Army Medical Center, West Point, NY*

**Panel Discussion**

Moderator: *LTC Anthony E. Johnson, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX*

1450-1550 What Has SOMOS Done for Me?
*COL (Ret) James R. Ficke, MD, Johns Hopkins University, Baltimore, MD
Col (Ret) Theodore W. Parsons III, MD, FACS, Henry Ford Hospital, Detroit, MI
CDR (Ret) Matthew T. Provencher, MD, Massachusetts General Hospital, Boston, MA*

**ABOS Board Review – Trauma**

1550-1635 Trauma Review
Daniel Stinner, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

1550-1650 Multimedia Education Session

Wednesday, December 9 - Warren Kadrmas Memorial Sports Day

1200-2400 Speaker Ready Area

0610-0710 Scientific E-Poster Session (Presenters will be available to answer questions.)

0700-1615 Meeting Registration

0710-0715 Introduction to the Warren Kadrmas Memorial Sports Day
Major Matthew R. Schmitz, MD, FAAP, San Antonio Military Medical Center, JBSA-Ft. Sam Houston, TX

Symposium 4: Sports Upper Extremity
Moderator: LTC Christopher Roach, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

0715-0755 Title TBA
Robert A. Arciero, MD, University of Connecticut Health Center, Farmington, CT

0755-0800 Discussion

0800-0820 Break With Exhibits

General Session 4: Sports Upper Extremity
Civilian Moderator: Robert A. Arciero, MD, University of Connecticut Health Center, Farmington, CT

Military Moderators: LTC Christopher Roach, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX
LTC Matthew Posner, MD, United States Military Academy, West Point, NY
LTC Josef K. Eichinger, MD, Madigan Army Medical Center, Tacoma, WA

0820-0825 Preoperative Resilience Predicts Postoperative Return To Duty And Outcome Scores For Arthroscopic Bankart Repair
CPT James S. Shaha, MD, Tripler Army Medical Center, Honolulu, HI

0825-0830 Soft Tissue Labral Reconstruction In Glenoid Bone Loss Model: A Biomechanical Study
Maj Richard J. Robins, MD, University of Utah Orthopaedic Center, Salt Lake City, UT

0830-0835 Improved Return to Play in Intercollegiate Contact Athletes following Arthroscopic Stabilization for Anterior Shoulder Instability: A Prospective Multicenter Service Academy Study
MAJ Jonathan F. Dickens, MD, West Point, NY; Annapolis, MD/Colorado Springs, CO

0835-0840 Anchored Versus Anchorless Rotator Cuff Repair: A Biomechanical Analysis
MAJ Kelly G. Kilcoyne, MD, William Beaumont Army Medical Center/Texas Tech University Health Sciences Center El Paso, TX/The Johns Hopkins University, Baltimore, MD

0840-0845 Discussion

0845-0850 Critical Findings On MR-Arthrogram In Posterior Shoulder Instability Compared To An Age-Matched Controlled Cohort
MAJ Joseph W. Galvin, DO, Madigan Army Medical Center, Tacoma, WA

0850-0855 Outcomes Of Revision Arthroscopic Anterior Shoulder Stabilization In A Military Population: A Prospective Cohort Study
CPT Michael A. Donohue, MD, US Naval Academy, Annapolis, MD

0855-0900 Diagnostic Shoulder Arthroscopy With A 70-Degree Arthroscope Improves Visualization Of The Bicipital Groove In Cadaveric And Living Subjects
Maj Andrew J. Sheean, MD, The San Antonio Orthopaedic Specialty Group Burkhart Research Institute for Orthopaedics, San Antonio, TX

0900-0905 Functional Outcomes After Suprascapular Nerve Decompression In A Young Active Population
LT Vanna Rocchi, DO, Naval Medical Center San Diego, San Diego, CA

0905-0910 Discussion

Symposium 5: Sports Lower Extremity
Moderator: MAJ Christopher Tucker, MD, Fort Belvoir Community Hospital, Fort Belvoir, VA

0910-0950 Title TBA
William R. Beach, MD, Tuckahoe Orthopaedics, Richmond, VA

0950-0955 Discussion

0955-1015 Break With Exhibits
General Session 5: Sports Lower Extremity
Civilian Moderator: William R. Beach, MD, Tuckahoe Orthopaedics, Richmond, VA
Military Moderators: LCDR Patrick W. Joyner, MD, MS, Naval Medical Center Portsmouth, Portsmouth, VA
LTC Josef K. Eichinger, MD, Madigan Army Medical Center, Tacoma, WA
MAJ Christopher Tucker, MD, Fort Belvoir Community Hospital, Fort Belvoir, VA
CDR Craig Randall, MD, Navy

1015-1020 Allograft Donor Age Does Not Impact the Clinical Outcomes of ACL Reconstructions
COL (Ret) Edward D. Arrington, MD, Madigan Army Medical Center, Fort Lewis, WA

1020-1025 Return To Military Duty After Anterior Cruciate Ligament Reconstruction
MAJ Ivan J. Antosh, MD, Carl R. Darnall Army Medical Center, Ft. Hood, TX

1025-1030 Failure Rates of Allograft Augmented Autograft Anterior Cruciate Ligament Reconstructions
CPT Sean C. Brugman, MD, Tripler Army Medical Center, Honolulu, HI

1030-1035 ACL-Deficiency Alters Loading On The Medial Femoral Condyle And The Lateral Meniscus With Rotatory Loads
LCDR Lucas S. McDonald, MD, MPH, TM, Hospital for Special Surgery, New York, NY

1035-1040 Discussion

1040-1045 Clinical Outcomes Comparison Of Adjustable Versus Closed Loop Femoral Cortical Suspension Devices
Capt Aaron E. Barrow, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

1045-1050 Functional Outcomes After Autologous Cartilage Implantation Of The Knee: A Study Utilizing The Military Health System Management And Reporting Tool
CPT Nicholas J. Zarkadis, DO, William Beaumont Army Medical, El Paso, TX

1050-1055 Comparative Effectiveness Of Viscosupplement And Corticosteroid Injections For Knee Osteoarthritis
Jonathan R. Staples, MD, Washington University, St Louis, MO

1055-1100 Return To Active Duty And Pain Reduction Following Autologous Chondrocyte Implantation For Treating Symptomatic Cartilage Defects In US Marines
LCDR Kevin W. Wilson, MD, Naval Hospital Camp Lejeune, Camp Lejeune, NC
Rapid Fire Sports A: Osteotomies and Other
Moderators: MAJ Christopher Tucker, MD, Fort Belvoir Community Hospital, Fort Belvoir, VA
LTC Matthew Posner, MD, United States Military Academy, West Point, NY

1109-1113 Short-Term Survivorship of Distal Femoral Osteotomy Performed for Lateral Compartment Arthrosis
CPT Nicholas Rensing, MD, William Beaumont Army Medical Center, El Paso, TX

1113-1117 Revision High Tibial Osteotomy: A Root Cause Analysis Of Failed Primary Surgery
CPT Nicholas Rensing, MD, William Beaumont Army Medical Center, El Paso, TX

1117-1121 Outcomes Tibial Tubercle Osteotomy For Patellofemoral Instability In Active Duty Military Members
CPT Tuesday F. Fisher, MD, William Beaumont Army Medical Center, El Paso, TX

1121-1127 Discussion

1127-1131 Outcomes Of Medializing Tibial Tubercle Osteotomy With Medial Reefing And VMO Advancement Coupled With Lateral Retinacular Z-Lengthening
LT Patrick Morrissey, MD, Naval Medical Center San Diego, San Diego, CA

1131-1135 Biceps Tenodesis For Treatment Of Superior Labral Tear Complicated By Paralabral Cyst In Active Duty Military
LT Nicholas Peter J. Perry, MD, Naval Medical Center San Diego, San Diego, CA

1135-1139 Double-Row Capsulolabral Repair Increases Load To Failure While Decreasing Motion
LCDR Lucas S. McDonald, MD, MPH, TM, Hospital for Special Surgery, New York, NY

1139-1145 Discussion

Rapid Fire Sports B: Anterior Cruciate Ligament
Moderators: Robert A. Arciero, MD, University of Connecticut Health Center, Farmington, CT
LTC Christopher Roach, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX
1109-1113 Outcomes of Revision Anterior Cruciate Ligament Reconstruction in a Young, High-Demand Population: A Prospective Cohort Study  
*CPT Michael A. Donohue, MD, US Naval Academy, Annapolis, MD*

1113-1117 Predictors Of Revision Surgery Following Anterior Cruciate Ligament Reconstruction  
*LT William M. Pullen, MD, Naval Medical Center Portsmouth, Portsmouth, VA*

1117-1121 A Comparison Of Hamstring Autograft, Tibialis Allograft And Allograft And Autograft Hybrid Construct For ACL Reconstruction In A Young Military Population  
*CPT Jeremy R. McCallum, BS, MS, MD, Tripler Army Medical Center, Honolulu, HI*

1121-1127 Discussion

1127-1131 A Comparison Of Four Common Radiographic Views In The Assessment Of Postoperative ACL Reconstruction Femoral Tunnel Orientation Using The Clock Face Method  
*CPO John D. Wagner, BS, MS3, Naval Medical Center San Diego, San Diego, CA*

1131-1135 Comparison Of Tibial Bone Block Lengths In A Porcine ACL Reconstruction Model  
*ENS Martin A. Collier, BS, Keller Army Community Hospital and the United States Military Academy West Point, NY*

1135-1139 Randomized Evaluation Of ACL Reconstruction Grafts  
*COL (Ret) Edward D. Arrington, MD, Madigan Army Medical Center, Fort Lewis, WA*

1139-1145 Discussion

**Rapid Fire Sports C: Miscellaneous Sports Topics**  
**Moderators:** William R. Beach, MD, *Tuckahoe Orthopaedics, Richmond, VA*  
CDR Craig Randall, MD, *Navy*

1109-1113 Trends In The Surgical Management Of Knee Cartilage Lesions In The United States Military  
*CPT Nicholas J. Zarkadis, DO, William Beaumont Army Medical, El Paso, TX, *Presented by MAJ Brian R. Waterman, MD*

1113-1117 Survivorship Of Patellofemoral Arthroplasty In The United States Military  
*Jennifer J. Misenhimer, BS, William Beaumont Army Medical Center, El Paso, TX*
Incidence And Risk Factors For Osteoarthritis Of The Knee
CPT Nicholas Kusnezov, MD, William Beaumont Army Medical Center, El Paso, TX

Discussion

The Gross Anatomy And Histology Of The Infrapatellar Plica, Central Body, And Fat Pad Suggests That They Function As An Enthesis Organ
LCol (Ret) Thomas V. Smallman, BSc, MSc, MD, FRCS, Upstate Medical University, Institute for Human Performance, Syracuse, NY

Incidence Of Intra-Articular Loose Bodies In Acute Patellar Dislocations
CPT Daniel C. DeRosa, DO, Tripler Army Medical Center, Honolulu, HI

Return-To-Play In Concussion: Differences In Women And Non-Intercollegiate Athletes
LtCol C. Dain Allred, MD, USAFA, Colorado Springs, CO

Discussion

Rapid Fire Sports D: Shoulder Arthroplasty And Instability
Moderators: LTC Jeffrey Giuliani, MD, Walter Reed National Military Medical Center, Bethesda, MD
LTC Josef K. Eichinger, MD, Madigan Army Medical Center, Tacoma, WA

Epidemiology Of Posterior Shoulder Instability In Young Athletes
MAJ Joseph T. Lanzi, Jr., MD, Keller Army Hospital, West Point, NY
*Presented by CPT Philip J. Chandler, MD

LTC Josef K. Eichinger, MD, Massachusetts General Hospital and Brigham and Women's Hospital, Boston, MA

Humeral Tray-Taper Disassociation In Reverse Total Shoulder Arthroplasty: Diagnosis Of And Management Of A Rare Complication
LCDR Lucas S. McDonald, MD, MPH, TM, Hospital for Special Surgery, New York, NY

Discussion

Predictors Of Hospital Readmission Following Total Shoulder Arthroplasty
CPT John C. Dunn, MD, Fort Bliss, TX

Clinical Outcomes Of Anatomic Total Shoulder Arthroplasty In A Young Active Population
CPT Nicholas Kusnezov, MD, William Beaumont Army Medical Center, El Paso, TX

1135-1139 Reverse Total Shoulder Arthroplasty With Latissimus Dorsi And Teres Major Tendon Transfer: A Systematic Review
Aaron Wey, MD, William Beaumont Army Medical Center, El Paso, TX
*Presented by Richard Van Tielnderen, MD

1139-1145 Discussion

1145-1245 Lunch Workshops

**Symposium 6: Miscellaneous Sports**
Moderator: LtCol Brett Anderson, MD, United States Air Force Academy, Colorado Springs, CO

1245-1325 Orthopaedics And The Law: Expert Testimony And You
David D. Teuscher, MD, Beaumont Bone and Joint Institution, Beaumont, TX

1325-1330 Discussion

**General Session 6: Miscellaneous Sports**
Civilian Moderator: David D. Teuscher, MD, Beaumont Bone and Joint Institution, Beaumont, TX

Military Moderators: LtCol Brett Anderson, MD, United States Air Force Academy, Colorado Springs, CO
Maj Aasta Pedersen, MD, Langley Air Force Base, Langley, VA
LTC Jeffrey Giuliani, MD, Walter Reed National Military Medical Center, Bethesda, MD

1330-1335 Evaluation Of Satisfaction And Durability After Hemiarthroplasty And Total Shoulder Arthroplasty In A Cohort Of Patients 50 Years Of Age And Younger; An Analysis Of Discordance Of Patient Satisfaction And Implant Survival.
LTC Josef K. Eichinger, MD, Massachusetts General Hospital and Brigham and Women's Hospital, Boston, MA

1335-1340 The Deltoid Lift: A Novel Extensive Exposure And Comparative Study Of Exposure In Proximal Humeral Approaches
CPT John C. Dunn, MD, William Beaumont Army Medical Center, El Paso, TX

1340-1345 Mid-Term Complications And Re-Operation Rates Following Pectoralis Major Tendon Repair In The Young Active Population
CPT Drew Nute, MD, William Beaumont Army Medical Center, El Paso, TX

1345-1350 Outcome Of Hip Arthroscopy For The Treatment Of Femoroacetablar Impingement In Active Duty Soldiers
MAJ David A. Crawford, MD, Blanchfield Army Community Hospital, Ft. Campbell, KY

1350-1355 Radiographic And Clinical Outcomes After Anatomic Coracoclavicular Reconstruction: Does Graft Size Matter?
CPT Emmanuel D. Eisenstein, MD, William Beaumont Army Medical Center, El Paso, TX

1355-1405 Discussion

1405-1410 Time For Postpartum Anterior Cruciate Ligament Laxity To Return To Baseline
LCDR Katharine I. Mangan, MD, Naval Medical Center San Diego, San Diego, CA

1410-1415 Post-Operative Blood Flow Restriction Training Following Knee Arthroscopy: A Randomized Controlled Trial
CPT David J. Tennent, MD, San Antonio Military Medical Center, Ft. Sam Houston, TX

1415-1420 Methylsulfonylmethane Versus Placebo In Initial Entry Military Trainees To Prevent Knee Pain
CPT Christina Hylden, MD, San Antonio Military Medical Center, Ft. Sam Houston, TX

1420-1425 Contemporary Epidemiology Of Aseptic Necrosis In The United States Military
CPT Baris K Gun, DO, William Beaumont Army Medical Center, El Paso, TX
*Presented by CPT Nicholas Kusnezov, MD

1425-1430 Discussion

1430-1445 Break

Concurrent Team Physicians Roundtable
Moderator: Maj Matthew R. Schmitz, MD, FAAP, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

1445-1545 Roundtable Discussion
Lt Col C. Dain Allred, MD, United States Air Force Academy, Colorado Springs, CO
CDR (Ret) Matthew T. Provencher, MD, Massachusetts General Hospital, Boston, MA
CDR John-Paul Rue, MD, United States Naval Academy, Annapolis, MD
COL Steven J. Svoboda, MD, Keller Army Community Hospital/United States Military Academy, West Point, NY
David D. Teuscher, MD, Beaumont Bone and Joint Institution, Beaumont, TX
Concurrent ABOS Board Review – Reconstruction

1445-1545 Reconstruction Review
David Vizurraga, MD San Antonio Military Medical Center, Ft. Sam Houston, TX

1545-1605 Report of the AAOS President
David D. Teuscher, MD, Beaumont Bone and Joint Institution, Beaumont, TX

1605-1615 Business Meeting
(All Active SOMOS Members Invited To Attend)

1615-1715 Multimedia Education Session

Thursday, December 10

1200-2400 Speaker Ready Area

0600-0630 Scientific E-Poster Session (Presenters will be available to answer questions.)

0630-1120 Meeting Registration

0630-0715 Service Consultant Breakouts
   Air Force
   Army
   Navy

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

0715-0755 TBA
Robert J. Medoff, MD, Windward Orthopedic Group, Kaneohe, HI

0755-0800 Discussion

Concurrent General Session 7: Hand
Civilian Moderator: Robert J. Medoff, MD, Windward Orthopedic Group, Kaneohe, HI
Military Moderators: Maj Peter C. Rhee, DO, MS, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX
LtCol Evan Jones, MD, Elmendorf Air Force Base, Anchorage, AK
LtCol Joseph Gower, MD, San Antonio Military Medical Center, Ft. Sam Houston, TX

0800-0805 Patient Based Risk Factors For Mortality And Complications Following Total Elbow Arthroplasty
MAJ Kelly G. Kilcoyne, MD, William Beaumont Army Medical Center /Texas Tech University Health Sciences Center El Paso, TX

0805-0810 Fixation Constructs For Thumb Metacarpophalangeal Joint Ulnar Collateral Ligament Avulsion Fractures: A Biomechanical Study
MAJ Emily HeeEun Shin, MD, Medstar Union Memorial Hospital, Baltimore, MD/Walter Reed National Military Medical Center, Bethesda, MD

0810-0815 Outcomes Of Open Dorsal Wrist Ganglion Excision In Active-Duty Military Personnel
CPT Michael A. Donohue, MD, Walter Reed National Military Medical Center, Bethesda, MD

0815-0820 Use Of Integra Dermal Matrix In The Treatment Of Combat-Related Upper Extremity Soft Tissue Injuries
LCDR Jonathan Seavey, MD, MS, Walter Reed National Military Medical Center, Bethesda, MD

0820-0825 Discussion

0825-0830 Acute Triceps Tendon Rupture Rehabilitation Protocol Using Early Mobilization With Dynamic Orthosis
2dLt Hannah Morehouse, BS, Madigan Army Medical Center, 9040 Jackson Ave, Tacoma, WA

0830-0835 The Scaphoid Staple: A Systematic Review
CPT Nicholas Kusnezov, MD, William Beaumont Army Medical Center, El Paso, TX

0835-0840 Outcomes Of Surgical Treatment For High-Energy Open Forearm Fractures
CPT Elizabeth M. Polfer, MD, Walter Reed National Military Medical Center, Bethesda, MD

0840-0845 Distal Scaphoid Resection Arthroplasty Versus Four Corner Fusion For The Treatment Of Young Patients With Scaphoid Nonunions And Arthritis
MAJ Kevin P. Krul, MD, Tripler Army Medical Center, Honolulu, HI

0845-0850 Discussion

Concurrent Symposium 8: Foot & Ankle
Moderator: MAJ Thomas C. Dowd, MD, San Antonio Military Medical Center, Ft. Sam Houston, TX

0715-0755 Title TBA
Christopher Chiodo, MD, Brigham and Women's Hospital, Boston, MA
Concurrent General Session 8: Foot & Ankle

Civilian Moderator: Christopher Chiodo, MD, Brigham and Women's Hospital, Boston, MA
Military Moderators: MAJ Thomas C. Dowd, MD, San Antonio Military Medical Center, Ft. Sam Houston, TX
     Maj Ryan Finnan, MD, University of Cincinnati, Cincinnati, OH
     LCDR Thomas Douglas, MD, US Naval Hospital, Portsmouth, VA

0800-0805 Functional Outcomes Following Operative Management Of Lisfranc Injuries In The United States Military
Logan Koehler, MD, William Beaumont Army Medical Center St, El Paso, TX

0805-0810 Improved Outcomes With An Integrated Rehabilitation And Orthosis Pathway For Functional Motor Deficits Of The Ankle
CPT Katherine Bedigrew, MD, San Antonio Military Medical Center, Ft. Sam Houston, TX

0810-0815 The Use Of Kager’s Triangle In Detecting Acute Achilles Tendon Ruptures
MAJ Kevin P. Krul, MD, Tripler Army Medical Center, Honolulu, HI

0815-0820 A Retrospective Review Of Operative And Non-Operatively Managed Achilles Tendon Ruptures: An Institution's Experience Applying Level I Data
LT Christopher Renninger, MD, Naval Medical Center, San Diego, San Diego, CA

0820-0825 Discussion

0825-0830 Functional Outcomes Following Operative Fixation Of Jones Fractures In An Active Duty Military Population
Logan Koehler, MD, William Beaumont Army Medical Center St, El Paso, TX

0830-0835 Determining Measurement Error For Bohler’s Angle And The Effect Of X-Ray Obliquity On Accuracy
LT Lauren K. Ehrlichman, MD, Beth Israel Deaconess Medical Center, Harvard Medical School Boston, MA

0835-0840 Return To Duty Following Operative Treatment Of Lisfranc Injury In An Active Duty Military Population
LT Matthew Garrett Hanley, MD, Walter Reed National Military Medical Center, Bethesda, MD

0840-0845 Osteochondral Allograft Transfer For Treatment Of Osteochondral Lesions Of The Talus: A Systematic Review
Aaron Wey, MD, William Beaumont Army Medical Center, El Paso, TX
0845-0850 Discussion

0850-0905 Refreshment Break

**Symposium 9: Pediatrics**
Moderator: Maj Jeremy Rush, MD, San Antonio Military Medical Center, Ft. Sam Houston, TX

0905-0945 Pediatric Fractures - What is New in 2015?
*James Beaty, MD, Campbell Clinic Orthopaedics, Germantown, TN*

0945-0950 Discussion

**Concurrent General Session 9: Pediatrics**
Civilian Moderator: James Beaty, MD, Campbell Clinic Orthopaedics, Germantown, TN
Military Moderators: Maj Jeremy Rush, MD, San Antonio Military Medical Center, Ft. Sam Houston, TX
                      LCDR Terrance D. Anderson, MD, Walter Reed National Military Medical Center, Bethesda, MD
                      MAJ Nathan Frost, MD, Madigan Army Medical Center, Tacoma, WA

0950-0955 Effect Of Casting Material On Cast Pressure After Sequential Cast Splitting
*CPT K. Aaron Shaw, DO, Dwight David Eisenhower Army Medical Center, Fort Gordon, GA
*Presented by CPT Aaron D. Roberts, DO*

0955-1000 Preliminary Evidence Of An Association Between ADHD Medications And Diminished Bone Health In Children And Adolescents
*MAJ Jessica C. Rivera, MD, US Army Institute of Surgical Research JBSA, JBSA-Fort Sam Houston, TX*

1000-1005 Fracture Classification Predicts Functional Outcomes in Supracondylar Humerus Fractures: A Prospective Study
*CPT Justin J. Ernat, MD, Children's Medical Center/Texas Scottish Rite Hospital, Dallas, TX*

1005-1010 Redefining Optimal Medullary Canal Fill In Flexible Intramedullary Nailing Of Pediatric Femur Fractures
*CPT James S. Shaha, MD, Tripler Army Medical Center, Honolulu, HI*

1010-1015 Discussion

1015-1020 The Reduction Maneuver For Pediatric Extension Supracondylar Fractures
*CAPT William Hennrikus, MD, Penn State College of Medicine, Hershey, PA*
1020-1025 Results Of Early Hip Reconstructive Surgery In Severely Involved Children With Cerebral Palsy
*CPT Betsey Bean, DO, Shriners Hospital for Children, Spokane, WA*

1025-1030 Nerve Injury Predicts Functional Outcomes in Supracondylar Humerus Fractures: A Prospective Study
*CPT Justin J. Ernat, MD, Children's Medical Center/Texas Scottish Rite Hospital, Dallas, TX*

1030-1035 Pediatric Orthopaedic Related Injuries Associated With Recreational Trampoline Use
*CPT John D. Johnson, DO, Tripler Army Medical Center, Honolulu, HI*

1035-1040 Discussion

**Concurrent ABOS Board Review – Hand**

0950-1040 Hand Review
*LtCol Evan Jones, MD, Elmendorf Air Force Base, Anchorage, AK*

**Rapid Fire A: Pediatric Infections And Miscellaneous**
Moderator: Maj Jeremy Rush, MD, *San Antonio Military Medical Center, Ft. Sam Houston, TX*
MAJ Nathan Frost, MD, *Madigan Army Medical Center, Tacoma, WA*

1044-1048 Characteristics Of Musculoskeletal Infections In Older Children And Adolescents
*CAPT Sarah N. Pierrie, MD, Carolinas Medical Center, Charlotte, NC*

1048-1052 The Surgical Treatment Of The Pediatric Septic Hip: A Systematic Review
*CPT Peter M. Formby, MD, Walter Reed National Military Medical Center, Bethesda, MD*

1052-1056 Osteomyelitis Is Commonly Associated With Septic Arthritis Of The Shoulder In Children
*CPT Justin J. Ernat, MD, Children's Medical Center/Texas Scottish Rite Hospital, Dallas, TX*

1056-1102 Discussion

1102-1106 Insertional Triceps Tendon Rupture In A Child: Case Report Of A Rare Injury
*LCDR Timothy S. Frazier, MD, Naval Medical Center Portsmouth, Portsmouth, VA*

1106-1110 Pelvic Tilt Affects Measurement of the Acetabular Index by Volume-Rendered CT
*CPT Justin M. Hire, MD, Children’s Healthcare of Atlanta, Atlanta, GA*
1110-1114 Benign Acute Childhood Myositis – A Rare Cause Of Abnormal Gait
*LT Gregory W. Hall, MD, Portsmouth, VA*

1114-1120 Discussion

**Rapid Fire B: Pediatric Trauma**

Moderator: James Beaty, MD, *Campbell Clinic Orthopaedics, Germantown, TN*
LCDR Terrance D. Anderson, MD, *Walter Reed National Military Medical Center, Bethesda, MD*

1044-1048 Flexible Intramedullary Nails For Femur Fractures In Pediatric Patients Heavier Than 100 Pounds
CPT James S. Shaha, MD, Childrens Medical Center /Texas Scottish Rite Hospital for Children, Dallas, TX

1048-1052 The Pediatric Orthopedic Trauma Season: Does It Exist?
*Maj Seth B. McCord, MD, University of New Mexico, Albuquerque, NM*

1052-1056 Submuscular Bridge Plating For Pediatric Femur Fractures: A Systematic Review
*Aaron Wey, MD, William Beaumont Army Medical Center, El Paso, TX*

1056-1102 Discussion

1102-1106 Late Problems At The Distal Radioulnar Joint After Wrist And Distal Forearm Fractures In Skeletally Immature Patients: Illustrative Cases And Review Of The Literature
*COL(Ret) Kathleen A. McHale, MD, OrthoVA, Annandale, VA*

1106-1110 Risk Factors For Complications In Open Forearm Fractures In The Pediatric Population
*CPT Adam C. Hines, MD, Tripler Army Medical Center, Honolulu, HI/Texas Scottish Rite Hospital for Children, Dallas, TX*

1110-1114 Vascular Examination Predicts Functional Outcomes In Supracondylar Humerus Fractures: A Prospective Study
*CPT Justin J. Ernat, MD, Children's Medical Center/Texas Scottish Rite Hospital, Dallas, TX*

1114-1120 Discussion

**Rapid Fire C: Miscellaneous**

Moderators: LCDR Thomas Douglas, MD, *US Naval Hospital, Portsmouth, VA*
Maj Peter C. Rhee, DO, MS, *San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX*
1044-1048 Results And Functional Outcomes Of Structural Fresh Osteochondral Allograft Transfer For Treatment Of Osteochondral Lesions Of The Talus In A High-Demand Military Population
CPT John C. Dunn, MD, William Beaumont Army Medical Center, El Paso, TX

1048-1052 Return To Active Duty Lifestyle After Modified Brostrom
CPT Thomas J. Melton, MD, Madigan Army Medical Center, Tacoma, WA

1052-1056 Return To Duty Following Oats Of Osteochondral Lesions Of The Talus In The Active Duty Population At A Military Medical Center
CPT Andrew T. Jackson, MD, Madigan Army Medical Center, Tacoma, WA

1056-1102 Discussion

1102-1106 Surgical Treatment Of Posterolateral Rotatory Instability Of The Elbow In An Active Duty Population
CPT Marina Rodriguez, MD, William Beaumont Army Medical Center, El Paso, TX

1106-1110 Osteochondral Defect Of The Upper Extremity Treated With Particulated Juvenile Cartilage Transfer
CPT John C. Dunn, MD, William Beaumont Army Medical Center, El Paso, TX

1110-1114 Closed Simple Elbow Dislocation In A Pediatric Patient
CPT Christopher Chen, MD, Madigan Army Medical Center, Tacoma, WA

1114-1120 Discussion

Rapid Fire D: Foot and Ankle Trauma
Moderator: Maj Ryan Finnan, MD, University of Cincinnati, Cincinnati, OH
MAJ Thomas C. Dowd, MD, San Antonio Military Medical Center, JBSA-Ft. Sam Houston, TX

1044-1048 Lisfranc ORIF In An Athletic Population: Screw Fixation Vs. Suture Button Fixation
CPT Shawn M. Gee, MD, Tripler Army Medical Center, Honolulu, HI

1048-1052 Single Anterior Plating For Primary Tibiotalar Arthrodesis: A Low Profile Alternative With Excellent Clinical And Radiographic Outcomes
CPT Nicholas Kusnezov, MD, William Beaumont Army Medical Center, El Paso, TX

1052-1056 Gravity Reduction View: A Novel Radiographic Technique For The Evaluation And Management Of Weber B Fibula Fractures
LT Lauren K. Ehrlichman, MD, Beth Israel Deaconess Medical Center, Harvard Medical School Boston, MA
1056-1102 Discussion

1102-1106 Functional Outcomes Following Operative Fixation of Lisfranc Fracture-Dislocations in the Young Active Population
Logan Koehler, MD, William Beaumont Army Medical Center, El Paso, TX

1106-1110 Extra-Articular Ankle Stabilization For Acute Ankle Trauma: A More Cost-Effective Approach?
LT Lauren K. Ehrlichman, MD, Beth Israel Deaconess Medical Center, Harvard Medical School Boston, MA

1110-1114 Treatment Of Nontraumatic Subtalar Dislocations In Adult Acquired Flatfoot Deformity
MAJ Uma E. Ramadorai, MD, University of Washington, Harborview, WA
*Presented by Joan R. Williams, MD

1114-1120 Discussion

1120-1220 Scientific E-Poster Session (Presenters will be available to answer questions.)

1220-1420 Multimedia Education Session

Friday, December 11

1200-1125 Speaker Ready Area

0630-0730 Scientific E-Poster Session (Presenters will be available to answer questions.)

0715-1125 Meeting Registration

Symposium 10: Spine
Moderator: MAJ Melvin D. Helgeson, MD, Walter Reed National Military Medical Center, Bethesda, MD

0730-0810 Title TBA
Alan S. Hilibrand, MD, The Rothman Institute, Philadelphia, PA

0810-0815 Discussion

General Session 10: Spine
Civilian Moderator: Alan S. Hilibrand, MD, The Rothman Institute, Philadelphia, PA
Military Moderators: MAJ Melvin D. Helgeson, MD, Walter Reed National Military Medical Center, Bethesda, MD
MAJ Dan Possley, MD, *Carl R. Darnall Army Medical Center, Fort Hood, TX*
LCDR Ryan Gocke, MD, *US Naval Hospital, Portsmouth, VA*

0815-0820  Spinal Fusion In Children With Osteogenesis Imperfecta: A Nationwide Perspective Over A 12 Year Period
*CPT Christopher M. Belyea, MD, MBA, Tripler Army Medical Center, Honolulu, HI*

0820-0825  Timing Of Surgery For Combat-Related Spine Injury Affects Complication
*0815CPT Peter M. Formby, MD, Walter Reed National Military Medical Center, Bethesda, MD*

0825-0830  Epidemiology And Charges Associated With Spinal Cord Injury Without Radiographic Abnormality In Children
*MAJ Jeffrey Knox, MD, Tripler Army Medical Center, Honolulu, HI*

0830-0835  Prevention Of Proximal Junctional Kyphosis/Failure Using Sublaminar Bands In A Hybrid Construct In Pediatric Kyphosis Deformity
*Capt Christopher R. Wild, MD, Wright State University, Dayton, OH*

0835-0843  Discussion

0843-0848  Access To Subspecialty Spine Care Following Lumbar Disc Herniation In Active Duty Personnel
*LCDR Theodore J. Steelman, MD, Walter Reed National Military Medical Center, Bethesda, MD*

0848-0853  Interbody Cage Height Affects Subsidence Rate After Transforaminal Lumbar Interbody Fusion
*CPT Peter M. Formby, MD, Walter Reed National Military Medical Center, Bethesda, MD*

0853-0858  Outcomes After Operative Management Of Combat-Related Low Lumbar Burst Fractures
*CPT Peter M. Formby, MD, Walter Reed National Military Medical Center, Bethesda, MD*

0858-0905  Discussion

0905-0920  Refreshment Break

**Symposium 11: Basic Science/Tumor**
**Moderator:** Maj Dustin Lybeck, MD, *University of Florida, Department of Orthopaedic Oncology, Gainesville, FL*
General Session 11: Basic Science

Civilian Moderator: Col (Ret) Theodore W. Parsons III, MD, FACS, Henry Ford Hospital, Detroit, MI

Military Moderators: Maj Dustin Lybeck, MD, University of Florida, Department of Orthopaedic Oncology, Gainesville, FL
LTC Jason A. Grassbaugh, MD, Madigan Army Medical Center, Tacoma, WA

1000-1005 Discussion

1005-1010 Three Dimensional Printed Scaffolds For Segmental Defects In Long Bones
Lt Sandeep R. Pandit, MD, Feinstein Institute for Medical Research, Northshore-Long Island Jewish Health System, Manhasset, NY

1010-1015 Optimization Of A Novel Scaffold For Cartilage Repair
Lt Sandeep R. Pandit, MD, Feinstein Institute for Medical Research, Northshore-Long Island Jewish Health System, Manhasset, NY

1015-1020 The Research Year In Orthopaedic Residencies: Does It Impact Research Productivity?
Cpt Chad A. Krueger, MD, San Antonio Military Medical Center/Walter Reed National Military Medical, San Antonio, TX

1020-1025 Efficacy of Radiopaque Gloves and Cream in Attenuating Direct Radiation Exposure: A Comparative Study
Capt Kim Richards Driftmier, MD, John A. Burns School of Medicine University of Hawaii, Honolulu, HI

1025-1030 Discussion

1030-1035 Early Gene Expression May Predict Future Symptomatic Heterotopic Ossification Reoperations
Maj Ronald Goodlett, MD, Walter Reed National Military Medical Center/Uniformed Services University of the Health Sciences, Bethesda, MD
*Presented by Lcdr Patrick E. Jones, MD

1035-1040 Sialomucin Is Necessary For Multipotential Differentiation In CD34+ Cells Derived From Human Traumatized Skeletal Muscle
Maj Ronald Goodlett, MD, Uniformed Services University of Health Sciences, Bethesda, MD
*Presented by Lt Daniel W Griffin, MD

1040-1045 Chondrotoxicity Of Liposomal Bupivacainie In Articular Chondrocytes
CPT K. Aaron Shaw, DO, Dwight David Eisenhower Army Medical Center, Fort Gordon, GA

1045-1050 Giant Cell Tumor of the Hamate
LT David A. Feaker Jr., DO, Naval Medical Center Portsmouth, Portsmouth, VA

1050-1055 Discussion

General Session 12: Practice Management/Education
Civilian Moderator: Col (Ret) Theodore W. Parsons III, MD, FACS, Henry Ford Hospital, Detroit, MI
Military Moderators: Maj Matthew R. Schmitz, MD, FAAP, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX
MAJ Travis C. Burns, MD, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

1055-1100 Orthopaedic Surgical Case Load At An Army Community Hospital And Combat Support Hospital
MAJ Kyong S. Min, MD, Brian Allgood Army Community Hospital, Seoul, Korea

1100-1105 Cost Savings, Safety, And Patient Satisfaction Analysis Of Wide Awake Hand Surgery At A Military Medical Center
Maj Peter C. Rhee, DO, MS, San Antonio Military Medical Center, JBSA-Fort Sam Houston, TX

1105-1110 Programmed Electronic Medical Records With Automated Risk Assessment Significantly Lowered DVT/VTE Rate
CPT James S. Shaha, MD, Tripler Army Medical Center, Honolulu, HI

1110-1115 Comparing Psychomotor And Visual-Spatial Abilities Of Fourth Year Medical Students, Residents And Staff Surgeons
LCDR Dustin Schuett, DO, Naval Medical Center San Diego, San Diego, CA

1115-1120 Developing A Novel Scoring System To Identify Residents Who Are Not Maximizing Their Educational Opportunities
CPT Chad A. Krueger, MD, San Antonio Military Medical Center, San Antonio, TX

1120-1125 Discussion

1125-1325 Multimedia Education Session

(Location listed by abstract authors’ names indicates the institution where the research took place.)
The Effect Of A Brief Exercise Intervention On Lower Extremity Biomechanics In Cadets With A History Of Anterior Cruciate Ligament Injury And Reconstructive Surgery
LtCol C. Dain Allred, MD, USAFA, Colorado Springs, CO

Epidemiology Women’s Flat Track Roller Derby Injuries
Capt Sadie M. Alongi, MD, University of Missouri-Kansas City, Kansas City, MO

MRI Predicts Adverse Local Tissue Reaction Histologic Severity In Modular Neck Total Hip Arthroplasty
LT Brian Barlow, MD, Hospital for Special Surgery, New York, NY

Outcomes Of Custom Tri-Flange Acetabular Components In Revision Total Hip Arthroplasty And Predictors Of Failure
LT Brian Barlow, MD, Hospital for Special Surgery, New York, NY

Short Term Outcomes And Complications Following Modular Total Hip Arthroplasty Revision
LT Brian Barlow, MD, Hospital for Special Surgery, New York, NY

A Process Improvement Evaluation Of Sequential Compression Device (SCD) Compliance And The Effects Of Provider Intervention
Capt Jason A. Beachler, MD, San Antonio Military Medical Center, Ft Sam Houston, TX

Repair Of Chronic Patellar Tendon Rupture With Extensor Mechanism Allograft Augmentation
LCDR Robert O. Boatwright, MD, Naval Medical Center Portsmouth, Portsmouth, VA

Epidemiology Of Pectoralis Major Tendon Ruptures In The Active Duty Population
CPT Alaina M. Brelin, MD, United States Naval Academy, Annapolis, MD

Application Of High Energy Extracorporeal Shockwave Therapy On Musculoskeletal Conditions In US Military Medical Facilities
CPT Sally Ann Corey, DO, Dwight D. Eisenhower Army Medical Center, Ft Gordon, GA

The Development Of An Orthopaedic Ultrasound Injection And Procedure Service At A Tertiary Academic Medical Center: An Analysis Of Utilization, Captured Revenue, Patient Experience, And Academic Value
CPT Chase Dukes, MD, Madigan Army Medical Center Joint Base Lewis-McChord, Tacoma, WA

Long Versus Short Cephalomedullary Nail for Intertrochanteric Femur Fractures (OTA)
CPT John C. Dunn, MD, Fort Bliss, TX

An Analysis Of Research From Faculty At U.S. Adult Reconstruction Fellowships
CPT Peter M. Formby, MD, Walter Reed National Military Medical Center, Bethesda, MD
Does Cage Subsidence Affect Clinical Outcomes After Transforaminal Lumbar Interbody Fusion?
CPT Peter M. Formby, MD, Walter Reed National Military Medical Center, Bethesda, MD

Osteoporosis Increases Radiographic Failure After Transforaminal Lumbar Interbody Fusion
CPT Peter M. Formby, MD, Walter Reed National Military Medical Center, Bethesda, MD

Musculoskeletal Education In Emergency Medicine Residency
CPT Christina Hylden, MD, San Antonio Military Medical Center, Fort Sam Houston, TX

Success Of Platelet-Rich Product Injections As A Non-Operative Alternative For UCL Injuries Of The Elbow
LCDR Patrick W. Joyner, MD, MS, Andrews Institute for Orthopaedics and Sports Medicine, Gulf Breeze, FL

The Impact Of Risk Reduction Initiatives On 30-Day THA And TKA Readmission Rates
James A. Keeney, MD, Washington University School of Medicine, St Louis, MO

Chronic Exertional Compartment Syndrome Of The Lower Leg: A Systematic Review
CPT Nicholas Kusnezov, MD, William Beaumont Army Medical Center, El Paso, TX

Predictability Of Lower Extremity Peripheral Nervous Anatomy
CPT Nicholas Kusnezov, MD, William Beaumont Army Medical Center, El Paso, TX

Sternoclavicular Reconstruction In The Young Active Patient: Risk Factor Analysis And Clinical Outcomes At Short-Term Follow-Up
CPT Nicholas Kusnezov, MD, William Beaumont Army Medical Center, El Paso, TX

Revision Surgery For Chronic Exertional Compartment Syndrome Of The Leg: Occupational Outcomes In An Active Duty Population
CPT Matthew D. Laughlin, DO, William Beaumont Army Medical Center, El Paso, TX

Comparison Of Back-Up Fixation Devices In A Porcine ACL Reconstruction Model
2LT Gregory E. Lause, MS, Keller Army Community Hospital and the US Military Academy, West Point, NY
*Presented by ENS Martin A. Collier, BS

Modifiable Risk Factors Associated With Degenerative Disk Disease
LT Louis Lewandowski, MD, Walter Reed National Military Medical Center, Bethesda, MD
*Presented by LCDR Theodore J. Steelman, MD

Non-Modifiable Risk Factors Associated With Degenerative Disk Disease
LT Louis Lewandowski, MD, Walter Reed National Military Medical Center, Bethesda, MD
*Presented by LCDR Theodore J. Steelman, MD
Prevelance Of Femoroacetabular Dysmorphology In Young Active Duty Patients Undergoing Hip Arthroplasty
*LT Brian J. Mannino, MD, Naval Medical Center Portsmouth, Portsmouth, VA*

Preventing Seal Leak During Negative Pressure Wound Therapy Near External Fixators: A Technical Tip
*LT Brian J. Mannino, MD, Portsmouth, VA*

Effect Of Incision Negative Pressure Wound Therapy On Wound Drainage After Total Knee Arthroplasty
*2LT Taylor Mansfield, MD, Madigan Army Medical Center, Tacoma, WA*
*Presented by CPT Joseph H. Dannenbaum IV, MD*

Head-To-Head Prospective Comparative Study Of The Three Current Virtual Reality Arthroscopic Simulators
*MAJ Kevin D. Martin, DO, University of Iowa, Iowa City, IA*

Multiple Ligament Injured Knee Injuries in Young College Athletes
*MAJ Jeanne C. Patzkowski, MD, Keller Army Community Hospital, West Point, NY*

Pathoanatomy Of Shoulder Instability In Collegiate Women
*MAJ Jeanne C. Patzkowski, MD, Keller Army Community Hospital, West Point, NY*

Adjustable Allograft Bone-Tendon-Bone ACL Reconstruction
*CPT John M. Rawlings, MD, Madigan Army Medical Center Fort Lewis, WA*

The Ability Of A Teaching Skills Education Program To Improve Orthopaedic Residents' Skills As Teachers
*LCDR Dustin Schuett, DO, Naval Medical Center San Diego, San Diego, CA*

Acetabular Labral Reconstruction With Iliotibial Band Autograft In A Military Servicemember
*CPT K. Aaron Shaw, DO, Dwight David Eisenhower Army Medical Center, Fort Gordon, GA*

Outcomes Following Treatment Of Articular Cartilage Injuries Of The Knee In Cadets At The United States Air Force Academy
*Capt Nicolas J. Skordas, MD, United States Air Force Academy, Colorado Springs, CO*

Outcomes Following Multilevel Cervical Disc Arthroplasty In A Young Active Patient
*CPT Nicholas J. Zarkadis, DO, William Beaumont Army Medical Center/Texas Tech University Health Sciences Center, El Paso, TX*