ACCREDITATION INFORMATION

PROGRAM COMMITTEE
CDR Lance E. LeClere, MD – Co-Chair
LCDR Lucas S. McDonald, MD, MPH – Co-Chair
MAJ James A. Blair, MD
CAPT Charles E. Craven Jr., MD
Lt Col Christopher T. LeBrun, MD
LTC Benjamin K. Potter, MD
Maj R. Judd Robins, MD
LCDR Theodore J. Steelman, 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 59th 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 33.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

* 24.25 CME Credits for Scientific Program
* 5.5 CME Credits for Scientific E-Poster Sessions
* 4 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 2017 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 2017 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 12-15, 2017 from approximately 7:00 am - 5:00 pm.

SCIENTIFIC E-POSTER PRESENTATIONS
Scientific E-Posters are an important feature of the SOMOS Annual Meeting. E-Posters will be on video display along with their presenters December 12-15 during the Scientific Program. Please note on the Scientific Program Schedule the designated times the poster presenters will be available for discussion.

MULTIMEDIA EDUCATION
Multimedia education materials will be offered December 12-15, at the designated times. A comprehensive selection of AAOS DVDs will be available for your individual education.
SOMOS Scientific Program

Monday, December 11

12:00 pm-8:00 pm  Meeting Registration
12:00 pm-11:59 pm  Speaker Ready Area

Tuesday, December 12

12:00 am-11:59 pm  Speaker Ready Area (*Princess Ballroom Foyer*)
6:00 am-6:55 am  **Scientific E-Poster Session** (Presenters will be available to answer questions.) (*Princess Ballroom Salons A, B, C & Castile 1*)
6:30 am-5:15 pm  Meeting Registration (*Princess Ballroom Foyer*)

Opening Ceremony
Moderators:  CDR Lance E. LeClere, MD, *US Naval Academy*
             LCDR Lucas S. McDonald, MD, MPH, *Naval Medical Center San Diego*
             CAPT Charles E. Craven Jr., MD, *Naval Medical Center San Diego*
7:00 am-7:10 am  Color Guard
7:10 am -7:20 am  Program Chairmen Welcome
7:20 am-7:30 am  Report of SOMOS President
7:30 am-8:30 am  Presidential Keynote Speaker
                 **VADM Forest Faison, Surgeon General of the Navy**
8:30 am-8:50 am  Break with Exhibitors (*Princess Ballroom Salons D, E, F & G*)

Symposium 1: Lower Extremity Injuries 1
Moderator:  Col. Brandon R. Horne, MD, *Wright Patterson Air Force Base*
8:50 am-9:15 am  The Evolution and Future of Severe Open Fracture Care
                 **Orthopaedics**
                 *CAPT (Ret) Michael J. Bosse, MD, Carolinas Medical Center*
9:15 am-9:20 am  Discussion

General Session 1: War Trauma
9:20 am-9:26 am  Risk Factors for Osteomyelitis in Wartime Open Tibia Fractures Do Not Predict Recurrence of Infection  
*MAJ Joseph L. Petfield, MD, Landstuhl Regional Medical Center*

9:26 am-9:32 am  **Founders Award**  
Intra-Wound Application of Antibiotic Powder Decreases Deep Infection and Reduces Severity of Heterotopic Ossification in Combat-Related Major Lower Extremity Amputations  
*LT Benjamin W. Hoyt, MD, Walter Reed National Military Medical Center*

9:32 am-9:38 am  Physical Performance Measures and Patient Reported Outcomes Which Predict Future Amputation  
*CPT Nathan A. Franklin, DO, San Antonio Military Medical Center*

9:38 am-9:44 am  Osseointegration for the Reconstruction of Devastating Military and Terrorist Blast Injuries  
*Solon L. Rosenblatt, MD, Macquarie University Hospital*

9:44 am-9:50 am  Discussion

9:50 am-9:56 am  Tranexamic Acid Administration and Venous Thromboembolism in Combat Casualties with Orthopedic Injuries  
*CPT Michael D. Baird, MD, Uniformed Services University of the Health Sciences*

9:56 am-10:02 am  Operative Stabilization of Unstable Flail Chest Injuries Reduces Mortality to that of Stable Chest Wall Injuries  
*Michael David McKee, MD, FRCS(C), St. Michael's Hospital, University of Toronto*  
*Presented by Niloofar Dehghan, MD, FRCSC*

10:02 am-10:08 am  In Vivo Antimicrobial Efficacy and Degradation Kinetics of Dakin’s Solution, An Adjunctive Treatment for Combat Wound Infections  
*CPT Nathan A. Franklin, DO, San Antonio Military Medical Center*

10:08 am-10:14 am  Increase in the Proportion of Combat-Related Amputations Forming Heterotopic Ossification  
*CPT Christopher M. Daniels, MD, Walter Reed National Medical Center*

10:14 am-10:20 am  Discussion
10:20 am-10:40 am  Break with Exhibitors (Princess Ballroom Salons D, E, F & G)

Symposium 2: Lower Extremity Injuries 2
Moderator:  CDR Bradley K. Deafenbaugh, MD, Naval Medical Center San Diego

10:40 am-11:05 am  Distal Femur Fractures  
Alexandra (Sandy) Schwartz, MD, University of California, San Diego

11:05 am-11:10 am  Discussion

General Session 2: Lower Extremity Trauma
Civilian Moderator:  Alexandra (Sandy) Schwartz, MD, University of California, San Diego
Military Moderator:  CDR Bradley K. Deafenbaugh, MD, Naval Medical Center San Diego

11:10 am-11:16 am  Osseointegrated Implants for Trans Femoral Amputees: Radiographic Evaluation of Bone Remodeling  
Seamus Thomson, PhD, The University of Sydney  
*Presented by Solon L. Rosenblatt, MD, Macquarie University Hospital

11:16 am-11:22 am  Treatment of Bone Defects In Open Tibia Fractures Treated With an IMN  
MAJ William T. Obremskey, MD, Vanderbilt University  
*Presented by CAPT (Ret) Michael J. Bosse, MD, Carolinas Medical Center Orthopaedics

11:22 am-11:28 am  Limb Salvage and Amputation Outcomes Following Severe Distal Tibia and Hindfoot Injuries: A Multi-Center Prospective Evaluation  
CAPT (Ret) Michael J. Bosse, MD, Carolinas Medical Center Orthopaedics

11:28 am-11:34 am  Martial Arts-Based High Intensity Interval Training in the Rehabilitation of Combat Amputees  
Capt Gavin L. Mills, MD, San Antonio Military Medical Center

11:34 am-11:40 am  Discussion

11:40 am-11:46 am  The Outcomes of Early Surgical Intervention in Geriatric Proximal Femur Fractures among Patients Receiving Direct Oral Anticoagulation  
CPT Nathan A. Franklin, DO, San Antonio Military Medical Center

11:46 am-11:52 am  Incidence, Predictors, and Impact of Valgus Reduction of Intertrochanteric Hip Fractures Treated with the Trochanteric Fixation Nail Helical Blade System: Is Anatomic Reduction Necessary?  
CPT Nicholas A. Kusnezov, MD, William Beaumont Army Medical Center
11:52 am-11:58 am  Is the Timing of Operative Splint Removal Following Surgical Fixation of Ankle Fractures Associated with the Development of Wound Complications?  
LT Lauren Ehrlichman, MD, Naval Hospital Beaufort

11:58 am-12:04 pm  Initiating a Diabetes Control Protocol During Inpatient Admissions Decreases Surgical Site Infections among Diabetic Trauma Patients  
CPT Stephen Chan, MD, William Beaumont Army Medical Center

12:04 pm-12:10 pm  Discussion

12:15 pm-1:15 pm  SOMOS Luncheon – Industry Presentation  
Stryker (Princess Ballroom Salons A)  
Legally Mine (Princess Ballroom Salons B)  
DePuy (Princess Ballroom Salons C)

Symposium 3: Upper Extremity Trauma  
Moderator: MAJ (P) Daniel J. Stinner, MD, San Antonio Military Medical Center

1:20 pm-1:45 pm  Trends in Humerus and Clavicle Fracture Care  
Steven J. Morgan, MD, FACS, Mountain Orthopaedic Trauma Surgeons at Swedish Medical Center

1:45 pm-1:50 pm  Discussion

General Session 3: Upper Extremity Trauma  
Civilian Moderator: Steven J. Morgan, MD, FACS, Mountain Orthopaedic Trauma Surgeons at Swedish Medical Center  
Military Moderator: MAJ (P) Daniel J. Stinner, MD, San Antonio Military Medical Center

1:50 pm-1:56 pm  Outcomes of Surgical Treatment for High-Energy Open Forearm Fractures  
LT Kyle E. Nappo, MD, Walter Reed National Military Medical Center

1:56 pm-2:02 pm  Operative vs. Non-Operative Treatment of Acute Displaced Distal Clavicle Fractures: A Multicentre Randomized Controlled Trial  
Michael David McKee, MD, FRCS(C), St. Michael's Hospital, University of Toronto

2:02 pm-2:08 pm  Figure of Eight Bracing for Displaced Midshaft Pediatric Clavicle Fractures: Effect on Shortening Compared to Simple Sling Treatment  
Christopher Sugalski, MD, Ohio State University Medical Center

2:08 pm-2:14 pm  Factors Associated with Ulnar Neuropathy after Bi-Columnar Plate Fixation of Distal Humerus Fractures  
Michael David McKee, MD, FRCS(C), St. Michael's Hospital, University of Toronto
*Presented by Niloofar Dehghan, MD, FRCSC

2:14 pm-2:20 pm Discussion

2:20 pm-2:26 pm Norman T. Kirk Award
Paloverotene Dampens Local and Systemic Inflammation as well as
Osteogenic Connective Tissue Progenitor Cell Activity in a Rat Model of
Trauma-Induced Heterotopic Ossification
LT Benjamin M. Wheatley, MD, Walter Reed National Military Medical
Center
*Presented by CPT Patrick D. Grimm, MD

2:26 pm-2:32 pm Targeted Reinnervation for the Orthopaedic Trauma Amputee
Travis L. Frantz, MD, Ohio State University Wexner Medical Center

2:32 pm-2:38 pm Advanced Characterisation of Combat Related Heterotopic Ossification
and In Vivo Feasibility Study of a Novel Therapy
Major Neil M. Eisenstein, BMBCh MRCS, University of Birmingham, UK

2:38 pm-2:44 pm Proximal Femur Hounsfield Units on Computed Tomography
Colonoscopy Accurately Predicts Low Bone Mineral Density: A Novel
Osteoporosis Screening Technique
LCDR Daniel L. Christensen, MD, Walter Reed National Military Medical
Center
*Presented by LCDR (Sel) Sameer Saxena, MD

2:44 pm-2:50 pm Discussion

2:50 pm-3:10 pm Break with Exhibitors (Princess Ballroom Salons D, E, F & G)

Rapid Fire Session 1A: Trauma (Princess Ballroom Salon A)
Moderators: Alexandra (Sandy) Schwartz, MD, University of California, San Diego
CDR Bradley K. Deafenbaugh, MD, Naval Medical Center San Diego

3:10 pm-3:14 pm Assessment of Follow-Up and Osteoporosis Treatment in Patients with
Fragility Fractures
Capt Séan P. Moroze, MD, San Antonio Military Medical Center
*Presented by Capt Matthew Mangini, MD

3:14 pm-3:18 pm A Comparative Study of Orthopedic and Radiology Reads of
Orthopedic Injuries at a Level-One Trauma Center
CPT Griffin M. Biedron, MD, William Beaumont Army Medical Center

3:18 pm-3:22 pm Incorporation of Familiar Surgical Instrumentation into a Modified
Surgical Construct for Treating Pauwels III Femoral Neck Fractures
Bernard P. Kemker, MD, Michigan State University
3:22 pm-3:25 pm Discussion

3:25 pm-3:29 pm Outcomes Associated with Early Return to Work and Improved Functional Outcome after Ankle Fracture Fixation
Michael David McKee, MD, FRCS(C), St. Michael's Hospital, University of Toronto
*Presented by Niloofar Dehghan, MD, FRCSC

3:29 pm-3:33 pm Outcomes of Early vs. Late Post-Operative Weightbearing in Patients Undergoing Surgical Fixation of Ankle Fractures: A Systematic Review and Meta Analysis
Michael David McKee, MD, FRCS(C), St. Michael's Hospital, University of Toronto
*Presented by Niloofar Dehghan, MD, FRCSC

3:33 pm-3:37 pm Effect of Nonsteroidal Anti-Inflammatory Drugs (Nsaid) on Bone Healing Rates: A Meta-Analysis
LT Benjamin M. Wheatley, MD, Walter Reed National Military Medical Center
*Presented by Kyle E. Nappo, MD

3:37 pm-3:40 pm Discussion

Rapid Fire Session 1B: War Trauma/Military Medicine (Princess Ballroom Salon B)
Moderators: CAPT (Ret) Michael J. Bosse, MD, Carolinas Medical Center Orthopaedics
Col. Brandon R. Horne, MD, Wright Patterson Air Force Base

3:10 pm-3:14 pm The Orthopedic Surgeon in the Field: An Update on Disaster Medicine
William H. Boyce, BA, Dartmouth College

3:14 pm-3:18 pm Epidemiology of Heterotopic Ossification Following Deployment Related Injury
MAJ Jessica Cross Rivera, MD, US Army Institute of Surgical Research
*Presented by CPT David J. Tennent, MD, San Antonio Military Medical Center

3:18 pm-3:22 pm Are Surgical Skills Under-Emphasized in Disaster Literature? A Literature Review
CAPT Steven R. Wilding, MD, Tripler Army Medical Center

3:22 pm-3:25 pm Discussion

3:25 pm-3:29 pm Civilian-Military Collaboration During Natural Disasters: Civilian Perspective
Major Nikolaj Wolfson, MD, CPMC, St Mary's Medical Center
3:29 pm-3:33 pm  Characterization of US Military Orthopaedic Medical Readiness and Training Exercises: Not All MEDRETEs Are Created Equal  
CPT David J. Tennent, MD, San Antonio Military Medical Center

3:33 pm-3:37 pm  Demographics and Disparities within US Military Orthopaedic Surgery  
CPT Christopher M. Daniels, MD, Walter Reed National Medical Center

3:37 pm-3:40 pm  Discussion

Rapid Fire Session 1C: Basic Science/Trauma (Princess Ballroom Salon C)  
Moderators: Steven J. Morgan, MD, FACS, Mountain Orthopaedic Trauma Surgeons at Swedish Medical Center  
CDR Colin Crickard, MD, Naval Medical Center Portsmouth

3:10 pm-3:14 pm  Inhibiting Protein – Protein Interaction as a Strategy for Epigenetic Targeting in Peripheral Nerve Regeneration  
CPT Christopher M. Daniels, MD, Walter Reed National Medical Center  
*Presented by LT Stephen Fernicola, MD

3:14 pm-3:18 pm  Evaluation of Factors Influencing Fixation of a Pauwels III Femoral Neck Fracture Using a Traid of Screws  
Sean Caskey, DO, McLaren Flint

3:18 pm-3:22 pm  Testosterone Levels in Anterior Cruciate Ligament Reconstruction vs. Arthroscopic Meniscal Debridement  
LT Matthew J. Wilson, MD, Naval Medical Center Portsmouth

3:22 pm-3:25 pm  Discussion

3:25 pm-3:29 pm  Glenoid Neck Hounsfield Units on Computed Tomography Can Accurately Identify Patients with Low Bone Mineral Density  
LT Kyle E. Nappo, MD, Walter Reed National Military Medical Center

3:29 pm-3:33 pm  Radiographic Relationship between the Lateral Tibial Plateau and Lateral Femoral Condyle in Normal Adult Knees  
Nima Kabirian, MD, University of Southern California  
*Presented by CAPT Mark E. Fleming, MD

3:33 pm-3:37 pm  Effect of Medical Comorbidities on Quadriceps Tendon Tear Morphology and Complexity  
LCDR Conor B. Garry, MD, Montefiore Medical Center

3:37 pm-3:40 pm  Discussion

Rapid Fire Session 1D: Practice Management and Education (Castile 1)
Moderators: CAPT (Ret) Scott W. Helmers, MD, *Southern California Permanente Medical Group*
LtCol Andrew W. Mack, MD, *Walter Reed National Military Medical Center*

3:10 pm-3:14 pm  Survey on Mental Health in Orthopedic Surgery Residents across North America  
*LT Michelle M. Gosselin, MD, Washington University in Saint Louis/Barnes-Jewish Hospital*

3:14 pm-3:18 pm  Risk of Burnout in Faculty and Resident Orthopaedic Surgeons at ACS Certified Level-1 Trauma Centers  
*CPT David J. Tennent, MD, San Antonio Military Medical Center*

3:18 pm-3:22 pm  AAOS Res Study Program and the Effectiveness on the Orthopedic In-Training Examination  
*CPT Ian A. Mullikin, MD, San Antonio Military Medical Center*

3:22 pm-3:25 pm  Discussion

3:25 pm-3:29 pm  A Preliminary Investigation of Risk Factors for Prolonged Opioid Use Following Anterior Cruciate Ligament Reconstruction  
*LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center*

3:29 pm-3:33 pm  Can a Bayesian Belief Network Be Used to Predict Prolonged Opioid Use after Anterior Cruciate Ligament Reconstruction?  
*LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center*

3:33 pm-3:37 pm  Musculoskeletal Injury Treatment and Resource Utilization in United States Military Veterans, Fiscal Year (FY) 2013-2015  
*Timothy C. Mauntel, PhD, ATC, Walter Reed National Military Medical Center*

3:37 pm-3:40 pm  Discussion

**Symposium 4: Orthopaedic Oncology**
Moderator:  LtCol Dustin Lybeck, MD, *San Antonio Military Medical Center*

3:45 pm-4:10 pm  Bone Tumors: The Good, Bad and Ugly - How to Avoid Errors in the Managements of Common Bone Tumors  
*CAPT (Ret) Scott W. Helmers, MD, Southern California Permanente Medical Group*

4:10 pm-4:15 pm  Discussion
General Session 4: Orthopaedic Oncology

Civilian Moderator: CAPT (Ret) Scott W. Helmers, MD, Southern California Permanente Medical Group

Military Moderator: LtCol Dustin Lybeck, MD, San Antonio Military Medical Center

4:15 pm-4:21 pm External Validation of a Tool for Survival Estimation in Patients with Metastatic Bone Disease Treated with Surgical Fixation Utilizing a Military Health System Cohort
Lt Ashley B. Anderson, MD, Walter Reed National Military Medical Center

4:21 pm-4:27 pm External Validation of a Tool for Survival Estimation in Patients with Metastatic Bone Disease Treated with Radiation Utilizing a Military Health System Cohort
Lt Ashley B. Anderson, MD, Walter Reed National Military Medical Center

4:27 pm-4:33 pm Low Grade Central Osteosarcoma: A Single Institution Experience with Long Term Follow Up
LtCol Dustin Lybeck, MD, San Antonio Military Medical Center

4:33 pm-4:39 pm Does Obesity Mask Soft Tissue Sarcoma Growth?
Capt George A. Cibulas, PharmD, MD, University of Michigan

4:39 pm-4:45 pm Discussion

4:45 pm-4:51 pm Analysis of Patient Centered Orthopaedic Oncology Care at a Military Facility
CPT Sean Kelly, MD, San Antonio Military Medical Center

4:51 pm-4:57 pm Are All Femurs Created Equal? The Basis for Femoral Component Design of the Osseointegration Implant
Solon L. Rosenblatt, MD, Macquarie University Hospital

4:57 pm-5:03 pm Rate of Metabolic and Endocrine Abnormalities in Patients with Stress Fractures
MAJ Daniel J. Song, MD, Landstuhl Regional Medical Center
*Presented by MAJ Kevin P. Krul, MD, Tripler Army Medical Center

5:03 pm-5:09 pm Development and Evaluation of Weight Bearing Bone Grafts
CPT David J. Tennent, MD, San Antonio Military Medical Center

5:09 pm-5:15 pm Discussion

5:15 pm-6:15 pm Scientific E-Poster Session Tour (Presenters will be available to answer questions.) (Princess Ballroom Salons A, B, C & Castile 1)
Moderators: Station A - CDR Bradley K. Deafenbaugh, MD, Naval Medical Center San Diego
Station B - LtCol Dustin Lybeck, MD, San Antonio Military Medical Center
Station C - CDR James E. Hammond, DO, Portsmouth Naval Hospital
Station D - MAJ E’Stephan Garcia MD, William Beaumont Army Medical Center

6:15 pm - 7:15 pm Multimedia Education Session (Princess Ballroom Foyer)

Wednesday, December 13 - Warren Kadrmas Memorial Sports Day

12:00 am - 11:59 pm Speaker Ready Area (Princess Ballroom Foyer)

6:30 am - 7:00 am Scientific E-Poster Session (Presenters will be available to answer questions.) (Princess Ballroom Salons A, B, C & Castile 1)

6:30 am - 4:55 pm Meeting Registration (Princess Ballroom Foyer)

Symposium 5: Sports - Knee
Moderator: Lt Col Ross A. Schumer, MD, San Antonio Military Medical Center

7:00 am - 7:25 am ACL Reconstruction 2017: Pearls of Success!!!
Darren L. Johnson, MD, University of Kentucky Sports Medicine

7:25 am - 7:30 am Discussion

General Session 5: Sports - Knee
Civilian Moderator: Darren L. Johnson, MD, University of Kentucky Sports Medicine
Military Moderator: Lt Col Ross A. Schumer, MD, San Antonio Military Medical Center

7:30 am - 7:36 am Meniscectomy and Resultant Articular Cartilage Lesions of the Knee in Prospective National Football League Players: An Imaging and Performance Analysis
CAPT Matthew T. Provencher, MD, The Steadman Clinic

7:36 am - 7:42 am Surgical Repair of the Knee Extensor Mechanism: Are There Differences in the Rates and Timing of Failure?
Capt Aaron M. Roberts, MD, University of Rochester

7:42 am - 7:48 am Change in KOOS and WOMAC Scores over 4 Years in a Young, Athletic Population With and Without Anterior Cruciate Ligament Injury
MAJ Ivan J. Antosh, MD, Dwight D. Eisenhower Army Medical Center
Presented by MAJ E'Stephan J. Garcia, MD, William Beaumont Army Medical Center

7:48 am-7:54 am  The Effect of Whipstitch Suture on Pullout Strength for Tibial Interference Fixation of Anterior Cruciate Ligament Soft Tissue Grafts
LT Ethan Bernstein, MD, MPH, Naval Medical Center San Diego
*Presented by ENS Kevin Taniguchi, BA, Uniformed Services University of the Health Sciences School of Medicine

7:54 am-7:59 am  Discussion

7:59 am-8:05 am  Clinical Outcomes of Multiple Osteochondral Allograft Transplantation of the Knee: An Analysis of Snowman Technique and Multifocal Lesions
Brian R. Waterman, MD, Wake Forest Baptist
*Presented by Eric Cotter, BS

8:05 am-8:11 am  Return to Duty after ACL Reconstruction: Are They Getting and Staying Back in the Fight?
MAJ Jay B. Cook, MD, Winn Army Community Hospital

8:11 am-8:17 am  Return to Duty after Multiligamentous Knee Reconstructions in Active Duty Service Members
CPT Robert C. Turner, MD, Tripler Army Medical Center

8:17 am-8:23 am  MRI-Based Analysis of Knee Composition Is Correlated with Outcomes after Anterior Cruciate Ligament Reconstruction
Capt Kartik Shenoy, MD, NYU Hospital for Joint Diseases

8:23 am-8:29 am  Anterior Cruciate Ligament Graft Removal versus Retention in the Setting of Septic Arthritis following Reconstruction: A Systematic Review and Expected Value Decision Analysis
CPT David R. Peterson, MD, Tripler Army Medical Center

8:29 am-8:35 am  Discussion

8:35 am-8:55 am  Break with Exhibitors (Princess Ballroom Salons D, E, F & G)

Rapid Fire Session 2A: Shoulder and Elbow (Princess Ballroom Salon A)
Moderators:  CAPT John-Paul H. Rue, MD, Mercy Medical Center
MAJ Stephen A. Parada, MD, Dwight D. Eisenhower Army Medical Center

8:55 am-8:59 am  Outcome Measures Following Medial Ulnar Collateral Ligament Reconstructions in a Military Population
John B. Fuller, MD, William Beaumont Army Medical Center
8:59 am-9:03 am  Return to Sporting Activity after Ulnar Nerve Transposition for Isolated Neuritis in Competitive Overhead  
  
  *Presented by Michael C. O’Brien, MA, BS

9:03 am-9:07 am  Incidence of Cubital Tunnel Syndrome in the US Military Population  
  
  *Presented by John J. Pisquiy, MHA, Paul L. Foster School of Medicine

9:07 am-9:10 am  Discussion

9:10 am-9:14 am  Mid-Term Functional Outcomes and Complications Following Pectoralis Major Tendon Reconstruction in Active Duty Military Personnel  
  
  *Presented by Andrew G. Chan, MD, MPH, William Beaumont Army Medical Center

9:14 am-9:18 am  High Tensile Strength Tape vs. High Tensile Strength Suture in Labral Repair and Capsulorrhaphy: A Biomechanical Study  
  
  *Presented by Nicholas P. Lopreiato, MD, Naval Medical Center San Diego

9:18 am-9:22 am  Biomechanical Evaluation of Unicortical Stress Risers of the Proximal Humerus Associated with Pectoralis Major Repair  
  
  *Presented by Brian P. Milam, MD, Madigan Army Medical Center

9:22 am-9:25 am  Discussion

**Rapid Fire Session 2B: Sports Injuries – Hip** *(Princess Ballroom Salon B)*

Moderators: MAJ E’Stephan Garcia MD, William Beaumont Army Medical Center  
LTC Jeffrey R. Giuliani, MD, Walter Reed National Military Medical Center

8:55 am-8:59 am  The Effect of Previous Methylphenidate Use on Incidence of Stress Fractures in Military Recruits: A Retrospective Cohort  
  
  *Presented by Haggai Schermann, MD, Tel-Aviv Sourasky Medical Center

8:59 am-9:03 am  Tension-Sided Femoral Neck Stress Fractures: Nonoperative Treatment without Progression Tension-Sided Femoral  
  
  *Presented by Kyle Mombell, MD, Naval Medical Center San Diego

9:03 am-9:07 am  Radiographic, Histologic, and Clinical Characteristics of Patients with Paralabral Ossicles in Femoroacetabular Impingement  
  
  *Presented by CPT Michael Elsenbeck, MD

9:07 am-9:10 am  Discussion
9:10 am-9:14 am  Surgical Variables That Predict Successful Outcomes after Arthroscopic Surgery for Femoroacetabular Impingement  
*COL Bryant G. Marchant, MD, Madigan Army Medical Center*

9:14 am-9:18 am  Influence of Joint Hypermobility on Patient-Reported Outcomes after Hip Arthroscopy for Femoroacetabular Impingement Syndrome  
*Brian R. Waterman, MD, Wake Forest Baptist*  
*Presented by Gift Ukwuani, MD*

9:18 am-9:22 am  Longer Preoperative Symptom Duration Leads to Lower Patient Satisfaction and Worse Function after Hip Arthroscopy  
*Brian R. Waterman, MD, Wake Forest Baptist*  
*Presented by Gift Ukwuani, MD*

9:22 am-9:25 am  Discussion

**Rapid Fire Session 2C: Shoulder Instability (Princess Ballroom Salon C)**

*Presented by Gift Ukwuani, MD*

Moderators:  
*COL (Ret) Dean C. Taylor, MD, Duke University Medical Center*  
*MAJ Kelly G. Kilcoyne, MD, William Beaumont Army Medical Center*

8:55 am-8:59 am  Tobacco Use Is a Risk Factor for Recurrent Dislocation after Arthroscopic Bankart Repairs  
*MAJ Kevin P. Krul, MD, Tripler Army Medical Center*

8:59 am-9:03 am  Incidence of Bone Loss in Circumferential Lesions of the Glenoid Labrum  
*CPT Henry H. Yu, MD, Madigan Army Medical Center*

9:03 am-9:07 am  Surgical Implications of the Distal Tibia Morphology for Glenoid Augmentation  
*CPT Colleen M. Moreland, DO, Dwight D. Eisenhower Army Medical Center*

9:07 am-9:10 am  Discussion

9:10 am-9:14 am  Pathoanatomy and Bone Loss Associated with First-Time and Recurrent Anterior Shoulder Instability in Collegiate Athletes: A Prospective Multicenter Study  
*MAJ Jonathan F. Dickens, MD, Walter Reed National Military Medical Center*

9:14 am-9:18 am  Baseline Functional Scores in Soldiers Undergoing Arthroscopic Shoulder Stabilization  
*CPT Zackary A. Johnson, MD, Tripler Army Medical Center*
9:18 am-9:22 am  The Arthroscopic West Point Technique: An Arthroscopic Load Shift for Assessing a Balanced Shoulder  
*CPT Donald R. Fredericks, MD, Walter Reed National Military Medical Center*

9:22 am-9:25 am  Discussion

**Rapid Fire Session 2D: Shoulder and Biceps (Castile 1)**

Moderators:  COL Mark P. Pallis, DO, William Beaumont Army Medical Center  
CDR James E. Hammond, DO, Portsmouth Naval Hospital

8:55 am-8:59 am  Arthroscopic Treatment of Posterior Shoulder Instability With and Without Glenoid Dysplasia  
*MAJ Joseph W. Galvin, DO, Blanchfield Army Community Hospital*

8:59 am-9:03 am  Incidence of Bone Deficiency in Patients with Posterior Glenohumeral Instability  
*CPT Jared A. Wolfe, MD, Walter Reed National Military Medical Center*

9:03 am-9:07 am  The Results of Posterior Labral Repairs in Baseball Players with Minimum 2-Year Follow-Up  
*Capt Timothy P. McCarthy, MD, Emory University*

9:07 am-9:10 am  Discussion

9:10 am-9:14 am  Patient Preferences for Treatment of Shoulder and Proximal Biceps Disorders Are Associated with Patient Age, Race, Sex and Activity Level  
*LT Michelle M. Gosselin, MD, Washington University in Saint Louis/Barnes-Jewish Hospital*

9:14 am-9:18 am  High Return to Preoperative Military Function after Arthroscopic Panlabral Repairs for Complex Shoulder Instability  
*CPT Andrew G. Chan, MD, MPH, William Beaumont Army Medical Center*

9:18 am-9:22 am  Risk Factors for Failure of Non-Operative Treatment of Posterior Labral Tears  
*LCDR Daniel L. Christensen, MD, Walter Reed National Military Medical Center*  
*Presented by CPT Michael Elsenbeck, MD*

9:22 am-9:25 am  Discussion

**Symposium 6: Sports - Foot and Ankle**

Moderator:  LTC Thomas C. Dowd, MD, San Antonio Military Medical Center
9:30 am-9:55 am  Athletic Foot and Ankle Injuries: Treating the Active Duty Service Member like the Elite Athlete  
*Robert B. Anderson, MD, Ortho Carolina Foot and Ankle Institute*

9:55 am-10:00 am  Discussion

**General Session 6: Sports - Foot and Ankle**  
Civilian Moderator:  Robert B. Anderson, MD, *Ortho Carolina Foot and Ankle Institute*  
Military Moderator:  LTC Thomas C. Dowd, MD, *San Antonio Military Medical Center*

10:00 am-10:06 am  Achilles Tendinopathy Outcomes within the Active Duty Population  
*CPT Gregory E. Lausé, MD, Tripler Army Medical Center*

10:06 am-10:12 am  Does Clinical Exam and Ultrasound Correlate with MRI Findings When Assessing Tendon Approximation in Acute Achilles Tendon Tears? A Clinical Study  
*CPT Justin J. Ernat, MD, Blanchfield Army Community Hospital*  
*Presented by MAJ John D. Johnson, MD, Tripler Army Medical Center*

*MAJ Kevin D. Martin, DO, Evans Army Community Hospital*  
*Presented by 2LT Jeffrey L. Wake, BS, Rocky Vista University*

10:18 am-10:24 am  Discussion

10:24 am-10:30 am  Outcomes of Particulated Juvenile Cartilage Transplantation for Osteochondral Lesions of the Talus in a High-Demand Population  
*CPT Kenneth Heida, MD, William Beaumont Army Medical Center*

10:30 am-10:36 am  Ankle Distraction Arthroplasty Compared to Other Cartilage Preservation Procedures in Patients with Post Traumatic Arthritis: A Systematic Review  
*Capt Jason A. Beachler, MD, San Antonio Military Medical Center*

10:36 am-10:42 am  Outcomes Following Modified Brostrom Procedure for Chronic Lateral Ankle Instability with and Without Peroneal Tendon Exploration/Repair  
*CPT Brian P. Milam, MD, Madigan Army Medical Center*

10:42 am-10:48 am  Discussion

10:48 am-11:08 am  Break with Exhibitors (Princess Ballroom Salons D, E, F & G)

**Seminar 1: Joint-Service Research Initiative - MOTION**  
Moderator:  MAJ Jonathan F. Dickens, MD, Walter Reed National Military Medical Center
11:08 am-12:20 pm  Joint-Service Research Initiative
   MAJ Jonathan F. Dickens, MD, Walter Reed National Military Medical Center
   RADM Bruce L. Gillingham, MD, USN, Deputy Chief, Readiness and Health Directorate, Chief Quality Officer, Bureau of Medicine and Surgery

12:20 pm-12:30 pm  Discussion

12:35 pm-1:35 pm  SOMOS Luncheon – Industry Presentation
   Stryker (Princess Ballroom Salons A)
   Vericel (Princess Ballroom Salons B)
   Arthrex (Princess Ballroom Salons C)
   Pacira (Castile 1)

Symposium 7: Sports Injuries
Moderator:  MAJ Kelly G. Kilcoyne, MD, William Beaumont Army Medical Center

1:35 pm-2:00 pm  Patient-Centered Leadership as seen Through Shoulder Instability
   COL (Ret) Dean C. Taylor, MD, Duke University Medical Center

2:00 pm-2:05 pm  Discussion

General Session 7: Sports Injuries
Civilian Moderator:  COL (Ret) Dean C. Taylor, MD, Duke University Medical Center
Military Moderator:  MAJ Kelly G. Kilcoyne, MD, William Beaumont Army Medical Center
   MAJ E’Stephan Garcia MD, William Beaumont Army Medical Center

2:05 pm-2:11 pm  Shoulder Injection Prior to Rotator Cuff Repair Is Associated with Increased Risk of Subsequent Surgery
   Capt Sophia A. Traven, MD, Medical University of South Carolina

2:11 pm-2:17 pm  Enhanced Multi-Modal Analgesia Pathway Associated with Reduced 90-Day Opioid Prescribing after Elective Sports Orthopaedic Surgery
   MAJ Jeanne C. Patzkowski, MD, Tripler Army Medical Center

2:17 pm-2:23 pm  Using the Kerlan Jobe Orthopaedic Shoulder Score to Predict Future Injury in Professional Baseball Pitchers
   LT Vanna Rocchi, DO, Naval Medical Center San Diego

2:23 pm-2:29 pm  Intraoperative Evaluation of SLAP Tear Morphology: A Retrospective Review
   LT Hannah E. Kirby, MD, Naval Medical Center San Diego

2:29 pm-2:35 pm  Discussion
2:35 pm-2:41 pm  Liposomal Bupivacaine versus Bupivacaine with Fascia Iliaca Blockade for Perioperative Pain Management during Hip Arthroscopy: A Double-Blinded Prospective Randomized Control Trial
CPT Patrick D. Grimm, MD, Walter Reed National Military Medical Center

2:41 pm-2:47 pm  Circumferential Labral Reconstruction with ITB Allograft: A Viable Option for Patients with Missing or Severely Compromised Labral Tissue?
2LT John P. Scanaliato, BS, Uniformed Services University of the Health Sciences School of Medicine

2:47 pm-2:53 pm  Mid to Long-Term Follow-Up of MRI Proven Acetabular Labral Pathology in Previously Asymptomatic Patients
LtCol Matthew R. Schmitz, MD, San Antonio Military Medical Center

2:53 pm-2:59 pm  Hip Arthroscopy for Femoroacetabular Impingement in a Military Population
LT Ethan Bernstein, MD, MPH, Naval Medical Center San Diego
*Presented by LT Martin Collier, MD, Keller Army Community Hospital

2:59 pm-3:05 pm  Discussion

3:05 pm-3:20 pm  Refreshment Break (Princess Ballroom Foyer)

Seminar 2: Transitioning Your Practice from Military to Civilian
Moderator:  CAPT John-Paul H. Rue, MD, Mercy Medical Center

3:20 pm-4:50 pm  Things to Appreciate When You're in the Military; What to Look for When You Are Finding Civilian Employment; How to Get the Most Out of It When You're There
Panel:  CDR Leo T. Kroonen MD, Permanente Medical Group
COL (Ret) Tad Gerlinger, MD, Rush University

4:50 pm-5:50 pm  Scientific E-Poster Session (Presenters will be available to answer questions.) (Princess Ballroom Salons A, B, C & Castile 1)

5:50 pm-6:50 pm  Multimedia Education Session (Princess Ballroom Foyer)

Thursday, December 14

12:00 am-11:59 pm  Speaker Ready Area (Princess Ballroom Foyer)

6:00 am-7:00 am  Service Breakouts
Air Force (Castile 5)
Army (Princess Ballroom Salons H & I)
Navy (Princess Ballroom Salon C)

6:00 am-12:00 pm Meeting Registration (Princess Ballroom Foyer)

Symposium 8: Adult Reconstruction
Moderator: LCDR Brian T. Barlow, MD, Naval Medical Center San Diego

7:15 am-7:40 am Update in Total Joint Replacement
James V. Bono, MD, New England Baptist Hospital

7:40 am-7:45 am Discussion

General Session 8: Adult Reconstruction
Civilian Moderator: James V. Bono, MD, New England Baptist Hospital
Military Moderator: LCDR Brian T. Barlow, MD, Naval Medical Center San Diego

7:45 am-7:51 am Fewer Complications Following Revision Hip and Knee Arthroplasty in Patients with Normal Vitamin D Levels
Capt Sophia A. Traven, MD, Medical University of South Carolina

7:51 am-7:57 am Acetabular Placement Accuracy with the Direct Anterior Approach Free-Hand Technique
Melissa C. Soderquist, BS, Georgetown University School of Medicine

7:57 am-8:03 am Does Periarticular Infiltration of a Local Anesthetic Cocktail Have Similar Efficacy as a Continuous Femoral Nerve Block During the First Two Days after Total Knee Arthroplasty
LT Michael A. Quacinella, DO, MPH, Naval Medical Center San Diego
*Presented by LCDR Brian T. Barlow, MD

8:03 am-8:09 am Is there Any Role for Direct Repair of Extensor Mechanism Disruption Following Total Knee Arthroplasty?
COL (Ret) Tad Gerlinger, MD, Rush University

8:09 am-8:15 am Discussion

8:15 am-8:21 am Geographic Trends in Total Joint Arthroplasty in the Military Health System
LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center

8:21 am-8:27 am Enhanced Multi-Modal Analgesia Pathway Associated with Reduced Hospital Length of Stay after Total Knee Arthroplasty
MAJ Michael S. Patzkowski, MD, Tripler Army Medical Center
8:27 am-8:33 am  Mechanical Knee Alignment in Osteoarthritic Knees versus Non-Arthritic Knees: What is a Normal Joint Line?
  LCDR Brian T. Barlow, MD, Naval Medical Center San Diego

8:33 am-8:39 am  Return to Active Duty After Total Knee and Total Hip Arthroplasty
  LT Alanna B. Balboni, MD, Naval Medical Center Portsmouth

8:39 am-8:45 am  Discussion

8:45 am-8:55 am  Refreshment Break (Princess Ballroom Foyer)

Rapid Fire Session 3A: Adult Reconstruction/Infection (Princess Ballroom Salon A)
Moderators:  James V. Bono, MD, New England Baptist Hospital
  LCDR Brian T. Barlow, MD, Naval Medical Center San Diego

8:55 am-8:59 am  Is Outpatient Unicompartmental Knee Arthroplasty Safe to Perform at an Ambulatory Surgery Center? A Comparative Study of Early Post-Operative Complications
  MAJ John P. Cody, MD, Walter Reed National Military Medical Center
  *Presented by CPT Richard L. Purcell, MD

8:59 am-9:03 am  The Shift to Same-day Outpatient Joint Arthroplasty: A Systematic Review
  CPT Nicholas J. Zarkadis, DO, William Beaumont Army Medical

9:03 am-9:07 am  Total Hip Arthroplasty Perioperative Factors and Their Predictive Value for Patient Discharge Destination
  LCDR Cory F. Janney, MD, University of Texas Medical Branch at Galveston

9:07 am-9:11 am  Return to Duty Following Periacetabular Osteotomy
  Capt Andrew S. Murtha, MD, San Antonio Military Medical Center

9:11 am-9:14 am  Discussion

9:14 am-9:18 am  Septic Olecranon and Prepatellar Bursitis: A Single Center Experience
  CPT James B. Deal, MD, Tripler Army Medical Center
  *Presented by CPT Aaron S. Vaslow, MD

9:18 am-9:22 am  Rapid and Convenient Decontamination of Thyroid Shields
  LT Chihua Lee, MD, Naval Medical Center Portsmouth

9:22 am-9:25 am  Discussion

Rapid Fire Session 3B: Hand and Wrist (Princess Ballroom Salon B)
Moderators: LCDR Dominic T. Gomez-Leonardelli, MD, Naval Medical Center San Diego
LCDR Emily A. Gilley, MD, Naval Hospital Camp Pendleton

8:55 am-8:59 am Underutilization of Upper Extremity Reconstruction for Persons with Tetraplegia: The Patient Perspective
Maj Julia A.V. Nuelle, MD, Loyola University Medical Center

8:59 am-9:03 am Outcomes of Metacarpal Fractures with Associated Behavioral Health Diagnosis
MAJ Seon A. Jones, MPAS, PA-C, Brooke Army Medical Center

9:03 am-9:07 am Wrist Arthroscopy for the Treatment of Scapholunate (SL) Predynamic Instability and Return to Duty
CPT Christopher Belyea, MD, MBA, Tripler Army Medical Center

9:07 am-9:10 am Discussion

9:10 am-9:14 am Processed Nerve Allograft Utilization in Peripheral Nerve Reconstruction: Continued Analysis
2LT Andrew J. Lopez, BS, Uniformed Services University of Health Sciences

9:14 am-9:18 am Perilunate Dislocations and Fracture Dislocations in the United States Military
Logan R. Koehler, MD, William Beaumont Army Medical Center

9:18 am-9:22 am Delayed and Nonunion of Distal Radius Fractures in a Military Population
CPT Christopher M. Daniels, MD, Walter Reed National Medical Center
*Presented by LT Stephen Fernicola, MD

9:22 am-9:25 am Discussion

Rapid Fire Session 3C: Pediatrics (Princess Ballroom Salon C)
Moderators: Anthony I. Riccio, MD, Texas Scottish Rite Hospital
LTC S. Imran Ahmed, MD, Ft. Belvoir

8:55 am-8:59 am Accuracy of Robot-Assisted Pedicle Screw Insertion in Adolescent Idiopathic Scoliosis: Is Triggered Electromyographic Pedicle Screw Stimulation Necessary?
CPT Kenneth A. Shaw, DO, Dwight D. Eisenhower Army Medical Center

8:59 am-9:03 am Reliability of Shoulder Height Assessment in Adolescent Idiopathic Scoliosis
MAJ Daniel G. Kang, MD, Madigan Army Medical Center
*Presented by CPT Justin C. Anderson, MD
9:03 am-9:07 am  Discussion

9:07 am-9:11 am  ACL Reconstruction in Adolescents: Midterm Results Using a Combined Biologic Approach
  Paul R. Fleissner, MD, Crystal Clinic Orthopedic Center

  CPT Thomas J. Melton, MD, Madigan Army Medical Center

9:15 am-9:19 am  Adolescent Kienbock Disease: Outcomes of Surgical Intervention
  Maj Julia A.V. Nuelle, MD, Loyola University Medical Center

9:19 am-9:25 am  Discussion

**Rapid Fire Session 3D: Spine (Castile 1)**

Moderators:  MAJ Melvin D. Helgeson, MD, Walter Reed National Military Medical Center
             LCDR David M. Glassman, MD, Naval Medical Center San Diego

8:55 am-8:59 am  Blood Transfusion Associated with Surgery for Adolescent Idiopathic Scoliosis Should Be a Rare Event
  COL(Ret) Robert P. Stanton, MD, Nemours Children's Hospital

8:59 am-9:03 am  Effect of Lordotic Cages on Foraminal Volume: A Finite Element Analysis
  Col (Ret) David W. Polly Jr., MD, University of Minnesota

9:03 am-9:07 am  Percutaneous Pedicle Screws in the Obese: Should the Skin Incision Be More Lateral?
  LT Kyle Mombell, MD, Naval Medical Center San Diego

9:07 am-9:10 am  Discussion

9:10 am-9:14 am  Disparities in Access to Spine Surgery among Active Duty Beneficiaries in the Military Health System
  LCDR George C. Balazs, MD, Walter Reed National Military Medical Center

9:14 am-9:18 am  Impact of Implant Density on Curve Correction for Large Stiff Idiopathic Scoliosis Curves
  CPT Gregory E. Lausé, MD, Tripler Army Medical Center

9:18 am-9:22 am  Tranexamic Acid (TXA) in Thoracic and Lumbar Fusions and Perioperative Blood Loss
  Nathan Wanderman, MD, Mayo Clinic
9:22 am-9:25 am  Discussion

**AAOS Report**
Moderator:  CAPT Charles E. Craven Jr., MD, *Naval Medical Center San Diego*

9:30 am-9:50 am  AAOS Update
*William J. Maloney III, MD, AAOS President, Stanford School of Medicine*

9:50-10:00 am  Discussion and Questions

**Business & Strategic Planning Meeting**
Moderator:  CAPT Charles E. Craven Jr., MD, *Naval Medical Center San Diego*

10:00 am-10:10 am  Business Meeting

10:10 am-10:20 am  Strategic Planning Meeting

*10:20 am-10:30 am  Refreshment Break (Princess Ballroom Foyer)*

**Symposium 9: Shoulder**
Moderator:  CDR James E. Hammond, DO, *Portsmouth Naval Hospital*

10:30 am-10:55 am  Rotator Cuff Repair: Advanced Techniques Including Convergence, Nerve Decompression, SCR and RM Patches; When and How *(Buddy) Felix H. Savoie III, MD, Tulane University*

10:55 am-11:00 am  Discussion

**General Session 9: Shoulder**
Civilian Moderator:  *(Buddy) Felix H. Savoie III, MD, Tulane University*
Military Moderator:  CDR James E. Hammond, DO, *Portsmouth Naval Hospital*

11:00 am-11:06 am  Using Pre-Injury and Post-Injury MRI for Quantification of Glenoid Bone Loss after First-Time and Recurrent Anterior Glenohumeral Instability *(CPT Sean E. Slaven, MD, Walter Reed National Military Medical Center)*

11:06 am-11:12 am  PROMIS for Patients Undergoing Arthroscopic Shoulder Surgery in the Military: Multidimensional Assessment as Standard of Care *(Matthew N. Millington, BS, Walter Reed National Military Medical Center)*

11:12 am-11:18 am  Complications and Reoperation Rates Following Latarjet Procedure in the US Military
ENS William R. Shannon, BS, George Washington University School of Medicine

11:18 am-11:24 am  Glenoid Track Instability Management Score: Radiographic Modification of The Instability Severity Index Score (ISIS)
CAPT Matthew T. Provencher, MD, The Steadman Clinic

11:24 am-11:30 am  Discussion

11:30 am-11:36 am  Midterm Functional and Radiographic Outcomes of Total Shoulder Arthroplasty in Patients with a B2 Glenoid Addressed with Corrective Reaming
LT Michelle M. Gosselin, MD, Washington University in Saint Louis/Barnes-Jewish Hospital

11:36 am-11:42 am  Salvage of Failed Hemi- and Total to Reverse Shoulder Arthroplasty: Clinical Improvement despite Increased Short-Term Risk of Reoperation
Brian R. Waterman, MD, Wake Forest Baptist
*Presented by Robert S. Dean, BS, Midwest Orthopaedics at Rush

11:42 am-11:48 am  Midterm Functional Outcomes of Total Shoulder Arthroplasty in Patients with a B2 Glenoid Addressed with a Reversed Offset Humeral Head
LT Michelle M. Gosselin, MD, Washington University in Saint Louis/Barnes-Jewish Hospital

11:48 am-11:54 am  Clinical Outcomes and Activity Levels after Anatomic Total Shoulder Arthroplasty with an Inlay Glenoid Component in an Active, Young Patient Population
Brian R. Waterman, MD, Wake Forest Baptist
*Presented by Michael C. O'Brien, MA, BS

11:54 am-12:00 pm  Discussion

12:00 pm-1:30 pm  Scientific E-Poster Session (Presenters will be available to answer questions.) (Princess Ballroom Salons A, B, C & Castile 1)

1:30 pm-2:30 pm  Multimedia Education Session (Princess Ballroom Foyer)

Friday, December 15

12:00 am-11:55 am  Speaker Ready Area (Princess Ballroom Foyer)

6:30 am-7:00 am  Scientific E-Poster Session (Presenters will be available to answer questions.) (Princess Ballroom Salons A, B, C & Castile 1)
6:30 am-11:55 am   Meeting Registration (Princess Ballroom Foyer)

**Symposium 10: Jamie Dianne Bulken-Hoover Memorial Hand Session**
Moderator: LCDR Dominic T. Gomez-Leonardelli, MD, Naval Medical Center San Diego

7:00 am-7:25 am   Elbow Arthritis Options: TEA to Interposition
Scott P. Steinmann, MD, Mayo Clinic

7:25 am-7:30 am   Discussion

**General Session 10: Hand and Upper Extremity**
Civilian Moderator: Scott P. Steinmann, MD, Mayo Clinic
Military Moderator: LCDR Dominic T. Gomez-Leonardelli, MD, Naval Medical Center San Diego

7:30 am-7:36 am   Functional Outcomes of Thumb Trapeziometacarpal Arthrodesis with a Locked Plate Versus Ligament Reconstruction and Tendon Interposition
LCDR K. J. Hippensteel, MD, Washington University, Saint Louis

7:36 am-7:42 am   The Effect of Dorsal Screw Prominence in the Radial Shaft of Distal Radius Fractures Treated with Volar Locked Plating
LCDR Nicholas Pulos, MD, Mayo Clinic

7:42 am-7:48 am   Derotational Pronation-Producing Osteotomy of the Radius and Biceps Tendon Rerouting for Supination Contractures
Capt Casey Dedeugd, MD, Mayo Clinic

7:48 am-7:54 am   Relative Tissue Oxygenation Changes Are More Reliable Than Clinical Exam or Temperature Changes for Detecting Early Tissue Ischemia
MAJ Elizabeth M. Polfer, MD, Walter Reed National Military Medical Center
*Presented by MAJ Jennifer M. Sabino, MD, Johns Hopkins Hospital

7:54 am-8:00 am   Discussion

8:00 am-8:06 am   Suture-Button Stabilization Following Ring Finger Ray Amputation: A Comparative Biomechanical Study
MAJ Emily Morgan, MD, Landstuhl Regional Medical Center
*Presented by MAJ Anthony M. Barcia, MD

8:06 am-8:12 am   Primary Medial Femoral Condyle Free Vascularized Bone Graft for the Treatment of Scaphoid Nonunions with Carpal Collapse and Proximal Pole Avascular Necrosis
LCDR Nicholas Pulos, MD, Mayo Clinic
8:12 am-8:18 am  The Role of Medial Femoral Condyle Free Vascularized Bone Graft for the Treatment of Failed Scaphoid Nonunion Surgery associated with Proximal Pole Avascular Necrosis  
*LCDR Nicholas Pulos, MD, Mayo Clinic*

8:18 am-8:24 am  Matti-Russe Technique for Scaphoid Nonunions in Pediatric Patients  
*CAPT Irshad A. Shakir, MD, Saint Louis University*

8:24 am-8:30 am  Discussion

**Symposium 11: Spine**  
Moderator:  MAJ Melvin D. Helgeson, MD, Walter Reed National Military Medical Center

8:30 am-8:55 am  The Sacroiliac Joint - The Link Between the Hip and Spine  
*Col (Ret) David W. Polly Jr., MD, University of Minnesota*

8:55 am-9:00 am  Discussion

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

**General Session 11: Spine**  
Civilian Moderator: Col (Ret) David W. Polly Jr., MD, University of Minnesota  
Military Moderator: MAJ Melvin D. Helgeson, MD, Walter Reed National Military Medical Center

9:15 am-9:21 am  Spine Surgery in Patients with Previous THA: Should We Fuse the Spine First?  
*LT Shian Liu, MD, Camp Pendleton*

9:21 am-9:27 am  The Impact of Translation and Stenosis  
*LCDR David M. Glassman, MD, Naval Medical Center San Diego*

9:27 am-9:33 am  Comorbid Mental Health Disorders Are Associated with Poor Outcomes after Cervical Spine Surgery at 2-Year Follow-Up  
*LT Shian Liu, MD, Camp Pendleton*

9:33 am-9:39 am  Routine Microscope Use Does Not Increase Operative Time or Affect Short Term Outcomes in Single Level Lumbar Microdecompression  
*LCDR Patrick B. Morrissey, MD, Rothman Institute*

9:39 am-9:45 am  Discussion

9:45 am-9:51 am  Four and Five-Level Anterior Cervical Discectomy and Fusion with Plate Fixation: Radiographic and Clinical Results  
*LCDR Theodore J. Steelman, MD, Walter Reed National Military Medical Center*
9:51 am-9:57 am  Re-Operation Following Sacral Alar-Iliac (S2AI) versus Traditional Iliac Pelvic Fixation
  *MAJ Daniel G. Kang, MD, Madigan Army Medical Center
  *Presented by CPT Justin C. Anderson, MD

9:57 am-10:03 am  Intraoperative Pedicle Screw Navigation Does Not Significantly Decrease Complications after Spine Surgery
  *LCDR Scott C. Wagner, MD, Rothman Institute

10:03 am-10:09 am  Number of Levels Fused Does Not Affect C5 Palsy Rate after Anterior Cervical Discectomy and Fusion
  *LCDR Scott C. Wagner, MD, Rothman Institute

10:09 am-10:15 am  Discussion

10:15 am-10:25 am  Refreshment Break (Princess Ballroom Foyer)

Symposium 12: Pediatrics
  Moderator: Lt Col Matthew R. Schmitz, MD, FAAP, San Antonio Military Medical Center

10:25 am-10:50 am  Pediatric Spine Trauma: The Texas Scottish Rite Hospital Experience
  *Anthony I. Riccio, MD, Texas Scottish Rite Hospital

10:50 am-10:55 am  Discussion

General Session 12: Pediatrics
  Civilian Moderator: Anthony I. Riccio, MD, Texas Scottish Rite Hospital
  Military Moderator: Lt Col Matthew R. Schmitz, MD, FAAP, San Antonio Military Medical Center

10:55 am-11:01 am  Does Pre-Culture Antibiotic Administration Lead to Non-Diagnostic Bone and Joint Culture Results in Pediatric Osteomyelitis and Septic Arthritis: A 12-Year Retrospective Review
  *Capt Michael Basso-Williams, DO, MPH, Riverside University Health System Medical Center

11:01 am-11:07 am  Increased Radiation Exposure in Patients Treated with Intramedullary Fixation Versus Spica Casting for Pediatric Femur Fractures
  *Philip A. Ashley, MD, Texas Scottish Rite Hospital for Children

  *CPT Kenneth A. Shaw, DO, Dwight D. Eisenhower Army Medical Center
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| 11:13 am-11:19 am | Perioperative Outcomes Following Surgical Treatment of the Neuromuscular Hip: An Analysis of the National Surgical Quality Improvement Program – Pediatrics  
*CPT Kenneth A. Shaw, DO, Dwight D. Eisenhower Army Medical Center* |
| 11:19 am-11:25 am | Discussion                                                                                       |
| 11:25 am-11:31 am | Fracture Risk through Oblique External Fixator Pin Tracts                                      
*CPT Shawn M. Gee, MD, Tripler Army Medical Center* |
| 11:31 am-11:37 am | High Rate of Inappropriate Referrals to Pediatric Orthopaedics in an Egalitarian Health Care System  
*LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center* |
| 11:37 am-11:43 am | Does the Increasing Rate of Transfer of Displaced Supracondylar Fractures in Children to Trauma Centers Increase Value?  
*CAPT (Ret) William L. Hennrikus, MD, Penn State College of Medicine* |
| 11:43 am-11:49 am | Prenatal Factors Affecting Early Childhood Fracture Risk                                         
*CPT Jared A. Wolfe, MD, Walter Reed National Military Medical Center* |
| 11:49 am-11:55 am | Discussion                                                                                       |
| 11:55 am-12:55 pm | **Multimedia Education Session** *(Princess Ballroom Foyer)* |
2017 E-Poster Presentations

STATION A (Princess Ballroom Salon A)

Basic Science

Poster 1
Analysis of Development of Post-Traumatic Osteoarthritis in a Sheep (Ovis Aries) Model Utilizing EPIC Microct
Capt Ian P. Goodman, MD, San Antonio Military Medical Center

Trauma

Poster 2
Ballistic Fractures to the Sacrum and Innominate Did Not Require Operative Fixation in a Large Case Series at a Level I Trauma Center
Mary Kate Erdman, MD, LAC and USC Medical Center

Poster 3
Incidence of Vacuum Phenomenon Related Intra-Articular or Subfascial Gas Found on Computer Assisted Tomography (CT) Scans of Closed Lower Extremity Fractures
Lt Col Christopher LeBrun, MD, R Adams Cowley Shock Trauma Center

Poster 4
Closed Lateral Pan-Talar Dislocation with Associated Lateral Talar Process and Medial Malleolus Fractures: A Traumatology Case Report with Technical Notes
Kurt Madzunovic, DO, Chicago Osteopathic Orthopedic Residency/Midwestern University

Poster 5
Pre-Hospital Advanced Therapies for Control of Hemorrhage (PATCH): Pilot Study Results
Capt Sarah N. Pierrie, MD, Carolinas Medical Center

Poster 6
The Psychology of Limb Loss and the Effects on Post-Operative Pain
Solon L. Rosenblatt, MD, Macquarie University Hospital

Poster 7
Increased Anterior Column Exposure Using the Anterior Intrapelvic Approach Combined with an Anterior Superior Iliac Spine (ASIS) Osteotomy: A Cadaveric Study
Maj Andrew J. Sheean, MD, San Antonio Military Medical Center
*Presented by CPT Richard K. Hurley MD

Poster 8
A Systematic Review of Osmotic Therapy for Extremity Compartment Syndrome
LCol Max Talbot, MD, FRCSC, Canadian Armed Forces
Poster 9
Open Reduction Internal Fixation versus Intramedullary Nailing for Humeral Shaft Fractures: An Expected Patient Value Decision Analysis
CPT Nicholas J. Zarkadis, DO, William Beaumont Army Medical

War Trauma/Military Medicine

Poster 10
Battlefield Surgery in Syria: A New Set of Challenges
MAJ Anthony M. Barcia, MD, Landstuhl Regional Medical Center

Poster 11
Successful Utilization of the Cross-Leg Flap in the Austere Surgical Theater
LtCol Chance Jack Henderson, MD, US Air Force Academy

Poster 12
Case Report of an Impaled Unexploded Ordinance in the Civilian Trauma Setting and a Review of the Literature
Capt Andrew S. Murtha, MD, San Antonio Military Medical Center

STATION B (Princess Ballroom Salon B)

Hand and Wrist

Poster 13
A Unique Case Of Simultaneous Dislocation Of Multiple Carpometacarpal Joints Including The Thumb, Index, Long, And Ring Fingers, But Sparing The Small Finger
LT Nicholas J. Erdle, MD, Naval Medical Center Portsmouth

Poster 14
Self-Inflicted Wrist Injuries Masquerading as Scaphoid Fractures in Military Recruits: Case Series
Captain (Res) Assaf Kadar, MD, Tel Aviv Sourasky Medical Center
*Presented by CPT Haggai Schermann, MD

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Clinical and Radiologic Outcomes after Scaphoid Fracture Treatment in NFL Combine Athletes
CAPT Matthew T. Provencher, MD, The Steadman Clinic

Practice Management/Education

Poster 16
Exaggerated Pre-Operative Patient Reported Visual Analog Pain Scale, A Retrospective Review of 201 Consecutive Surgical Patients
MAJ Kevin D. Martin, DO, Evans Army Community Hospital
*Presented by ENS J. Preston Van Buren

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Orthopaedic Injury Treatment and Resource Utilization in the United States Military, Fiscal Year (FY) 2012-2015
Timothy C. Mauntel, PhD, ATC, Walter Reed National Military Medical Center

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One Military Treatment Facility’s Experience with a Fracture Liaison Service
LT Kyle E. Nappo, MD, Walter Reed National Military Medical Center

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Virtual Reality Simulator versus Dry Lab Training for Shoulder Arthroscopy Procedures
MAJ Jessica Cross Rivera, MD, US Army Institute of Surgical Research
*Presented by COL Anthony E. Johnson, MD

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CAPT Irshad A. Shakir, MD, Saint Louis University

Tumor/Musculoskeletal

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Capt Taylor Bates, MD, San Antonio Military Medical Center
*Presented by CPT David J. Tennent, MD

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Osteosarcoma of the Calcaneus Presenting in Active Duty Sailor
LT Nicholas P. Perry, MD, Naval Medical Center San Diego

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Capt Tierney A. Shannon, MD, San Antonio Military Medical Center

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CPT Brian P. Milam, MD, Madigan Army Medical Center

Knee

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LT Nicholas H. Lake, MD, Naval Medical Center San Diego

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LT Austin C. Nabet, DO, Naval Medical Center Portsmouth

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

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LT Ethan Bernstein, MD, MPH, Naval Medical Center San Diego
*Presented by LT Martin Collier, MD

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CPT Sally A. Corey, DO, Dwight D. Eisenhower Army Medical Center

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MAJ(P) Sean P. Kearney, MD, MPH, Womack Army Medical Center

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LT Hicks C. Manson, MD, Navy Medical Center Portsmouth

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CPT Nischal S. Nadig, DO, Dwight David Eisenhower Army Medical Center
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*CPT Kenneth A. Shaw, DO, Dwight David Eisenhower Army Medical Center  
*Presented by CPT John D. Synovec, MBA, MD*

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*Brian R. Waterman, MD, Wake Forest Baptist  
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**Shoulder and Elbow**

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*Robert S. Dean, BS, Midwest Orthopaedics at Rush*

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*MAJ Michael A. Donohue, MD, Walter Reed National Military Medical Center*

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*CPT Nicholas J. Drayer, MD, Madigan Army Medical Center*

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*John B. Fuller, MD, William Beaumont Army Medical Center*

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*CPT Spencer Schulte, MD, William Beaumont Army Medical Center*

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*LCDR Scott C. Wagner, MD, Rothman Institute*

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*LCDR Scott C. Wagner, MD, Rothman Institute*