Tuesday, December 17

12:00 pm-5:00 pm  **Board of Directors Meeting**

12:00 pm-8:00 pm  **Meeting Registration**

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

Wednesday, December 18

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

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

6:30 am-5:05 pm  **Meeting Registration**

6:30 am-5:05 pm  **Technical Exhibits, Coffee Breaks and Daily Drawing**

**Opening Ceremony**
Moderators:  
Maj Andrew J. Sheean, MD, *San Antonio Military Medical Center*  
LTC Thomas C. Dowd, MD, *San Antonio Military Medical Center*  
LtCol Christopher T. LeBrun, MD, *R. Adams Cowley Shock Trauma Center*

7:00 am-7:10 am  Color Guard

7:10 am-7:15 am  Welcome & Opening Announcements

**Symposium 1 – Trauma 1**
Moderator:  
LCDR Bradley K. Deafenbaugh, MD, *Naval Medical Center San Diego*

7:15 am-7:40 am  Pelvic Ring Injury Management – Current State of the Art  
*Hassan R. Mir, MD, MBA, Florida Orthopaedic Institute*

7:40 am-7:45 am  Discussion

7:45 am-8:05 am  **Break with Exhibitors**

**General Session 1 – Trauma 1**
Civilian Moderator:  
Hassan R. Mir, MD, MBA, *Florida Orthopaedic Institute*

Military Moderator:  
LCDR Bradley K. Deafenbaugh, MD, *Naval Medical Center San Diego*

8:05 am-8:11 am  159 - Impact of Fascia Iliaca Block on Pain, Opioid Consumption, and Clinical Outcomes for Patients with Hip Fractures – A Prospective, Randomized Study
CPT Spencer S. Schulte, MD, William Beaumont Army Medical Center

8:11 am-8:17 am  91 - Implementation of a Multidisciplinary “Code Hip” Protocol is Associated with Decreased Time to Surgery and Improved Patient Outcomes
CPT Richard J. VanTienderen, DO, William Beaumont Army Medical Center

8:17 am-8:23 am  198 - Longitudinal Analysis of Bone Turnover Biomarkers in Osteoporotic Women
CPT Sean E. Slaven, MD, Walter Reed National Military Medical Center

8:23 am-8:29 am  25 - Resident Involvement Affects OR Time and Complications in Lower Extremity Fracture Care
Capt Sophia A. Traven, MD, Medical University of South Carolina

8:29 am-8:35 am  Discussion

8:35 am-8:41 am  183 - The Lateral Pubic Symphysis Fluoroscopic Image Identifies Screw Cortical Breaches During Symphyseal Plating
LT Kyle Mombell, MD, Naval Medical Center San Diego

8:41 am-8:47 am  61 - Multimodal Pain Control in Femoral and Tibial Shaft Fractures
CPT Kyle J Klahs, DO, William Beaumont Army Medical Center

8:47 am-8:53 am  45 - Negative Pressure Wound Therapy Does Not Diminish Effectiveness of Topical Antibiotic Powder
CPT Nicole M. Sgromolo, MD, San Antonio Military Medical Center

8:53 am-8:59 am  204 - Factors Predicting Recurrence After Treatment of Fracture Related Infections
Benjamin W. Hoyt, MD, Walter Reed National Military Medical Center

8:59 am-9:05 am  Discussion

Rapid Fire Sessions 1A – Education
Moderators:  TBD

9:08 am-9:12 am  39 - Implementation of a Mobile App for Trauma Education: Results from a Multicenter Study
Natasha Simske, BS, University of Wisconsin School of Medicine and Public Health

9:12 am-9:16 am  103 - Research Productivity of Residents Accepted for Orthopaedic Trauma Fellowships
CPT Andrew G. Chan, MD, MPH, William Beaumont Army Medical Center

9:16 am-9:20 am  216 - Characterization of Blast Injuries at a Civilian Level 1 Trauma Center
LT Carl A Nunziato, MD, Dell Seton Medical Center
9:20 am-9:24 am  Discussion

9:24 am-9:28 am  148 - Factors Considered when Ranking Military Orthopedic Surgery Residency Applicants  
* CPT Matthew Wells, DO, William Beaumont Army Medical Center

9:28 am-9:32 am  3 - The H-Index and Self-Citation Among Orthopaedic Surgery Fellowship Directors  
* MAJ Justin J. Ernat, MD, Blanchfield Army Community Hospital

9:32 am-9:36 am  67 - The Orthopaedic Burden of Illegal Border Crossings at a US-Mexico Border Level 1 Trauma Center  
* CPT Richard J. VanTienderen, DO, William Beaumont Army Medical Center

9:36 am-9:40 am  Discussion

**Rapid Fire Sessions 1B – Hip/Pelvis Fracture**  
Moderators: TBD

9:08 am-9:12 am  118 - Does Insurance Status Influence the Treatment or Outcomes of Geriatric Patients with a Hip Fracture?  
* CPT Richard J. VanTienderen, DO, William Beaumont Army Medical Center

9:12 am-9:16 am  219 - Can Partially Threaded Screws Be Improved to Maximize Sacral Purchase?  
* MAJ Shawn Boomsma, DO, Army Trauma Training Detachment - Ryder Trauma Center

9:16 am-9:20 am  181 - Minimally Invasive Lumbopelvic Fixation for Trauma  
* CPT Darshan Shah, MD, San Antonio Military Medical Center

9:20 am-9:24 am  Discussion

9:24 am-9:28 am  59 - Optimal Clamp Positioning for the Reduction of Transtectal Acetabular Fractures Through the AIP Approach  
* LT Erica K. Crump, MD, Naval Medical Center San Diego

9:28 am-9:32 am  227 - Reliability of the Walter Reed Classification for Heterotopic Ossification Severity  
* Benjamin W. Hoyt, MD, Walter Reed National Military Medical Center

* LT John T. Richards, MD, Walter Reed National Military Medical Center

9:36 am-9:40 am  Discussion

**Rapid Fire Sessions 1C – Upper Extremity**  
Moderators: TBD
9:08 am-9:12 am  160 - Locked Plating Proximal Humeral Fractures with and without Fibula Allograft
   *CPT Dexter C. Allen, Doctor of Medicine, Tripler Army Medical Center*

9:12 am-9:16 am  94 - Non-Operative Management of Olecranon Fractures in Elderly Patients: A Systematic Review
   *CPT Griffin M Biedron, MD, William Beaumont Army Medical Center*

9:16 am-9:20 am  141 - Pharmacologic Treatments in Chronic Neuropathic Upper Extremity Pain: Systematic Review
   *Michael Ramirez, MS, Uniformed Services University*

9:20 am-9:24 am  Discussion

9:24 am-9:28 am  114 - A Surgical Technique for Percutaneous Plating of Ulnar Diaphyseal Fractures
   *CPT Desraj M. Clark, MD, Walter Reed National Military Medical Center*

9:28 am-9:32 am  10 - Interposition Arthroplasty after Proximal Ulna Reconstruction with Masquelet Technique
   *Capt John J. Carroll, MD, Brooke Army Medical Center*

9:32 am-9:36 am  164 - Resection of Symptomatic Flexor Carpi Radialis Brevis Muscle
   *LT Ethan M. Bernstein, MD, MPH, Naval Medical Center San Diego*

9:36 am-9:40 am  Discussion

**Rapid Fire Sessions 1D – Hand**
Moderators:  TBD

9:08 am-9:12 am  51 - Outcomes Following Complex Nerve Lacerations in the Volar Forearm
   *CPT Ryan B. Bucknam, MD, William Beaumont Army Medical Center*

9:12 am-9:16 am  75 - Subcutaneous Anterior Transposition vs. In-Situ Decompression of the Ulnar Nerve
   *CPT Michael D. Eckhoff, MD, William Beaumont Army Medical Center*

9:16 am-9:20 am  185 - Anatomical Variations in Pathway of Median Nerve: Gross Cadaver Study
   *Chika Okafor, MD, Howard University Hospital*

9:20 am-9:24 am  Discussion

9:24 am-9:28 am  107 - Analysis of the Quality of Prospective Controlled Randomized Trials of Treatment of Boxer’s Fractures
   *Isaac Fernandez, MD, Texas Tech University Health Sciences Center, El Paso*

9:28 am-9:32 am  48 - Dorsal Bridge Plate for Distal Radius Fracture: A Systematic Review
   *CPT Austin Fares, MD, William Beaumont Army Medical Center*
9:32 am-9:36 am  84 - Bone Morphogenetic Protein in Scaphoid Non-Union: A Systematic Review
CPT Michael M. Polmear, MD, William Beaumont Army Medical Center

9:36 am-9:40 am  Discussion

9:40 am-10:00 am  Break with Exhibitors

Symposium 2 – Trauma 2
Moderator: MAJ Justin T. Fowler, MD, San Antonio Military Medical Center

10:00 am-10:25 am  Extreme Nailing of Periarticular Fractures
Walter Virkus, MD, Indiana University Health

10:25 am-10:30 am  Questions

General Session 2 – Trauma 2
Civilian Moderator: Walter Virkus, MD, Indiana University Health
Military Moderator: MAJ Justin T. Fowler, MD, San Antonio Military Medical Center

10:30 am-10:36 am  133 - Cell Behaviour Following Blast Trauma Influences the Likelihood of Non-Union
MAJOR Sarah K Stewart, MBChB BMedSci (Hons), Imperial College London

10:36 am-10:42 am  53 - Effects of a Targeted-Therapy Approach for Post-Traumatic Heterotopic Ossification
LCDR Marvin Dingle, MD, Walter Reed National Military Medical Center

10:42 am-10:48 am  169 - Bisphosphonate Temporal-Spatial Localization and Therapeutic Impact in Burn-Orthopaedic Injury Model
Capt Samuel L Posey, MD, Carolinas Medical Center

10:48 am-10:54 am  7 - Pulmonary Complication After Tibial and Femoral Nailing
LT Benjamin M. Wheatley, MD, Walter Reed National Military Medical Center

10:54 am-11:00 am  Discussion

11:00 am-11:06 am  74 - The Productivity and Utilization of Active Duty Orthopaedic Trauma Surgeons
CPT Archie Overmann, MD, Walter Reed National Military Medical Center

11:06 am-11:12 am  121 - Defining the Intramedullary Axis of the Distal Tibia using Computed Tomography
Capt Haydn J. Roberts, MD, University of Arizona - Tucson

11:12 am-11:18 am  9 - Effect of Peri-Articular Implants On Contact Pressure Across the Knee Joint
11:18 am-11:24 am  158 - Intramedullary Nail Entry Point Affects Postoperative Femoral Shaft Fracture Alignment
   M. Wesley Honeycutt, MD, University of South Alabama

11:24 am-11:30 am  Discussion

11:30 am-12:30 pm  **Focused Lunch Presentations**
   *CME Credit Not Available*

12:30 pm-12:50 pm  **Report of SOMOS President**
   Areas of Military Civilian Partnership to Domestic Disaster Planning and Response
   Christopher T. LeBrun, MD, R. Adams Cowley Shock Trauma Center

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**Symposium 3 – Hand - Jamie Dianne Bulken-Hoover Memorial Hand Session**
Moderator:  Col P. Shea Brannan, MD, Eglin Air Force Base

12:50 pm-1:15 pm  Advancements in the Care of Upper Extremity Amputees
   R. Glenn Gaston, MD, OrthoCarolina

1:15 pm-1:20 pm  Questions

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**General Session 3 – Hand - Jamie Dianne Bulken-Hoover Memorial Hand Session**
Civilian Moderator:  R. Glenn Gaston, MD, OrthoCarolina
Military Moderator:  Col P. Shea Brannan, MD, Eglin Air Force Base

1:20 pm-1:26 pm  49 - Nerve Repair Using Processed Nerve Allograft in the US Military
   CPT Kyle J. Klahs, DO, William Beaumont Army Medical Center

1:26 pm-1:32 pm  63 - Ultrasound Measurement Criteria for Carpal Tunnel Syndrome: Which is Best?
   Collin S. Black, MS3, Duke University Medical Center

1:32 pm-1:38 pm  184 - Limb Occlusion Pressure vs. Standard Pneumatic Tourniquet Pressure in Open Carpal Tunnel Surgery – A Randomized Trial
   Capt Hannah Morehouse, MD, Houston Methodist Hospital

1:38 pm-1:44 pm  106 - Modulation of Repressor Element-1 Silencing Transcription Factor levels in Trauma-Induced Mesenchymal Progenitor Cells to Promote Peripheral Nerve Regeneration
   CPT Desraj M. Clark, MD, Walter Reed National Military Medical center Orthopaedic Surgery

1:44 pm-1:50 pm  Discussion

1:50 pm-1:56 pm  207 - Prospective Evaluation of Open Dorsal Wrist Ganglion Excision in the Active Duty Military Population
   LCDR Marvin Dingle, MD, Walter Reed National Military Medical Center
1:56 pm-2:02 pm  108 - Arthroscopically Assisted Transosseous Triangular Fibrocartilage Complex Foveal Tear Repair  
CPT Michael M. Polmear, MD, William Beaumont Army Medical Center

2:02 pm-2:08 pm  50 - Functional Outcomes of Processed Nerve Allograft in the US Military  
CPT Joshua C. Tadlock, MD, William Beaumont Army Medical Center

2:08 pm-2:14 pm  161 - Electromyography in Posterior Interosseous Nerve Compression & Surgical Decompression Outcomes  
CPT Dexter C. Allen, Doctor of Medicine, Tripler Army Medical Center

2:14 pm-2:20 pm  Discussion

Special Presentation 1  
Moderator:

2:20 pm-2:45 pm  The Future of War Trauma  
Kenneth J. Nelson, MD, Womack Army Medical Center

2:45 pm-2:50 pm  Discussion

2:50 pm-3:10 pm  Break with Exhibitors

Symposium 4 – Pediatrics  
Moderator:  Lt Col Matthew R. Schmitz, MD, FAAP, San Antonio Military Medical Center

3:10 pm-3:35 pm  Pediatric Topic  
Admiral Bruce Gillingham, MD, Navy Bureau of Medicine and Surgery

3:35 pm-3:40 pm  Questions

General Session 4 – Pediatrics  
Civilian Moderator:  Admiral Bruce Gillingham, MD, Navy Bureau of Medicine and Surgery  
Military Moderator:  Lt Col Matthew R. Schmitz, MD, FAAP, San Antonio Military Medical Center

3:40 pm-3:46 pm  128 - Open Fractures of the Phalangeal Head and Neck in Children  
CPT J. Banks Deal Jr., MD, Tripler Army Medical Center

3:46 pm-3:52 pm  16 - Inappropriate Pediatric Orthopaedic Emergency Department Transfers: A Burden on the Healthcare System  
Brandon Hull, MD, University of Texas Southwestern

3:52 pm-3:58 pm  129 - Pediatric Orthopaedic Surgeon Time Utilization in Clinic: The EMR and Click Fatigue  
CAPT William Hennrikus, MD, Penn State College of Medicine

3:58 pm-4:04 pm  13 - Botulinum Toxin May Delay or Prevent Surgery in Spastic Hemiplegic Cerebral Palsy  
Stephen Gates, MD, University of Texas Southwestern Medical Center

4:04 pm-4:10 pm  Discussion
4:10 pm-4:16 pm  212 - Core Decompression with Bone Marrow Aspirate Concentrate in the Treatment of Legg-Calve-Perthes Disease
Matthew Griffith, BS, MD, Dwight D. Eisenhower Army Medical Center

4:16 pm-4:22 pm  38 - Pediatric Navicular-Medial Cuneiform Tarsal Coalitions: A Case Series
Megan E. Fischer-Colbrie, BS, Naval Medical Center San Diego

4:22 pm-4:28 pm  120 - Functional Implications of the Flat-Topped Talus in Idiopathic Clubfoot Deformity
Anthony I. Riccio, MD, Texas Scottish Rite Hospital for Children

4:28 pm-4:34 pm  17 - Guided Growth and Infantile Blount’s Disease: Is it a Viable Option?
MAJ K. Aaron Shaw, DO, Dwight D. Eisenhower Army Medical Center

4:34 pm-4:40 pm  Discussion

Rapid Fire Sessions 2A – Nerves
Moderators: TBD

4:43 pm-4:47 pm  97 - Supercharge End to Side Nerve Transfer: Systematic Review
Isaac Fernandez, MD, Texas Tech University Health Sciences Center El Paso

4:47 pm-4:51 pm  76 - Combat-Sustained Peripheral Nerve Injuries in the US Military
CPT Michael D. Eckhoff, MD, William Beaumont Army Medical Center

4:51 pm-4:55 pm  46 - Combat Sustained Peripheral Nerve Injury Outcomes
CPT Tyler Nicholson, MD, William Beaumont Army Medical Center

4:55 pm-4:59 pm  Discussion

4:59 pm-5:03 pm  139 - Radial Nerve Palsies in Humeral Shaft Fractures: A Systematic Review
Erik Hegeman, BS, Uniformed Services University

5:03 pm-5:07 pm  122 - Radial Tunnel Syndrome Secondary to Rare Vascular Anomaly
LT Matthew J. Wilson, MD, Naval Medical Center San Diego

5:07 pm-5:11 pm  226 - Managing Complex Peripheral Nerve Injuries within the Military Health System: A Multi-Disciplinary Approach to Treatment, Education, and Research at Walter Reed National Military Medical Center
LCDR Sean Wade, MD, Walter Reed National Military Medical Center

5:11 pm-5:15 pm  Discussion

Rapid Fire Sessions 2B – Hand
Moderators: TBD

4:43 pm-4:47 pm  109 - Botulinum Therapy for Vasospastic Disease of the Hand: A Systematic Review
CPT Christopher Alberts, DO, William Beaumont Army Medical Center

4:47 pm-4:51 pm  90 - Preoperative Sleep Disturbance Linked to Patient Outcomes following Orthopaedic Hand Surgery  
CPT Nicholas J. Drayer, MD, Madigan Army Medical Center

4:51 pm-4:55 pm  126 - Ulnar Metacarpal Base Fracture-Dislocations: Treatment Options and Literature Review  
John B. Fuller, MD, William Beaumont Army Medical Center

4:55 pm-4:59 pm  Discussion

4:59 pm-5:03 pm  35 - Risk Factors for Infection Following Total Wrist Arthroplasty and Arthrodesis: An Analysis of 6,641 Patients  
Alyssa D. Althoff, BS, Medical University of South Carolina

5:03 pm-5:07 pm  64 - Factors Affecting Decision Making Regarding Antibiotics for Elective Hand Surgery  
CPT Tyler Nicholson, MD, William Beaumont Army Medical Center

5:07 pm-5:11 pm  37 - Resilience and Patient Reported Outcomes in Patient Undergoing Orthopaedic Hand Surgery  
CPT Nicholas J. Drayer, MD, Madigan Army Medical Center

5:11 pm-5:15 pm  Discussion

Rapid Fire Sessions 2C – Spine
Moderators: TBD

4:43 pm-4:47 pm  166 - Radiographic Analysis of Lumbar Disc Arthroplasty Reoperations  
CPT Darshan Shah, MD, San Antonio Military Medical Center

4:47 pm-4:51 pm  230 - Analysis of Severe Dysphagia Patients Following Anterior Cervical Spine Surgery  
Capt John Wuellner, MD, University of California, Davis

4:51 pm-4:55 pm  111 - Cervical Paraspinal Muscle Fat Infiltration Can Be Estimated by Computed Tomography Hounsfield Units  
LCDR Scott C. Wagner, MD, Walter Reed National Military Medical Center  
CPT Donald R. Fredericks Jr., MD, Walter Reed National Military Medical Center

4:55 pm-4:59 pm  Discussion

4:59 pm-5:03 pm  149 - Sacroiliac Fusion Revision: A Case Series-Based Technique Guide  
CPT Daniel J. Cognetti, MD, Brooke Army Medical Center

5:03 pm-5:07 pm  11 - Burst Fracture Managed with XLIF and Posterior Instrumentation: Technical Note  
Capt John J. Carroll, MD, Brooke Army Medical Center
5:07 pm-5:11 pm  12 - Vertically Unstable Sacral Fracture Nonunion Revised with Iliac-Iliac Fixation  
*Capt John J. Carroll, MD, Brooke Army Medical Center*

5:11 pm-5:15 pm  Discussion

**Rapid Fire Sessions 2D – Practice and Pain Management**
Moderators:  TBD

4:43 pm-4:47 pm  224 - Initial Deployability and Outcome Trends in Military Health System Beneficiaries Undergoing Shoulder Procedures Enrolled in MOTION Database  
*Col Mark Slabaugh, MD, United States Air Force Academy*

4:47 pm-4:51 pm  117 - Billing and Coding Education and Knowledge Among Military Orthopaedic Surgeons  
*CPT Matthew Mangini, MD, San Antonio Military Medical Center*

4:51 pm-4:55 pm  116 - Opioid Prescribing Patterns and Patient Satisfaction with Care  
*MAJ Nathan Lanham, MD, Martin Army Community Hospital*

4:55 pm-4:59 pm  Discussion

4:59 pm-5:03 pm  72 - Utilization of the Department of Defense Peer Reviewed Orthopaedic Research Program (PRORP)  
*LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center*

5:03 pm-5:07 pm  105 - Opioid Prescribing Patterns for United States Military Veterans with a History of Musculoskeletal Injury  
*ENS Katina Kartalias, BS, MS, The George Washington University School of Medicine*

5:07 pm-5:11 pm  147 - Multivitamin Use in Enhanced Recovery After Surgery Protocols: A Cost Analysis  
*Capt Dawn M. G. Rask, MD, San Antonio Military Medical Center*

5:11 pm-5:15 pm  Discussion

5:15 pm-6:15 pm  **Military Female Orthopaedic Surgeons Forum**  
Moderator:  TBD

5:15 pm-6:15 pm  **Scientific E-Poster Session**  (Presenters will be available to answer questions.)

6:15 pm-6:45 pm  **Multimedia Education Session**
Thursday, December 19

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

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

7:00 am-12:05 pm  Meeting Registration

7:00 am-12:05 pm  Technical Exhibits, Coffee Breaks and Daily Drawing

Symposium 5 – Reconstruction/Tumor
Moderator:  LtCol Dustin Lybeck, MD, San Antonio Military Medical Center

7:00 am-7:25 am  Segmental Bone Loss in Tumor Surgery: Past to Present  
Andre R. Spiguel, MD, University of Florida

7:25 am-7:30 am  Questions

General Session 5 – Reconstruction/Tumor
Civilian Moderator:  Andre R. Spiguel, MD, University of Florida
Military Moderator:  LtCol Dustin Lybeck, MD, San Antonio Military Medical Center

7:30 am-7:36 am  22 - Resilience and Patient Reported Outcomes in Patients Undergoing Total Hip Arthroplasty  
CPT Nicholas J. Drayer, MD, Madigan Army Medical Center

7:36 am-7:42 am  220 - Safe Return to Driving Following Anterior vs. Posterior Approach to Total Hip Arthroplasty  
LT John T. Richards, MD, Walter Reed National Military Medical Center

7:42 am-7:48 am  195 - Fixed-Bearing Medial Unicondylar Knee Arthroplasty - Slight Varus, Just Right  
CPT Sean E. Slaven, MD, Walter Reed National Military Medical Center

7:48 am-8:54 am  85 - What is the Critical Tibial Resection Depth During Unicompartmental Knee Arthroplasty? A Biomechanical Study of Fracture Risk.  
LT Trevor Tompane, MD, MPH, Naval Medical Center San Diego

7:54 am-8:00 am  Discussion

8:00 am-8:06 am  134 - Isolated Tibial Revision with a Cruciate Retaining Femoral Component: Can You Stay CR?  
CDR Robert W Tracey, MD, Rush University Medical Center

8:06 am-8:12 am  110 - Sarcoma Survival in the US Military Population: A Comparison of the DoD Central Cancer Registry and National Cancer Institute’s SEER Program  
LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center
27 - Survivorship Following Resection of Primary Tumors in Patients with Metastatic Soft Tissue Sarcoma
Capt Sophia A. Traven, MD, Medical University of South Carolina

242 - Examining the Use of the Pressure Modulated Knee Rehabilitation Machine (PMKR) In Addition to Traditional Physical Therapy vs. Traditional Physical Therapy Alone Following Total Knee Arthroplasty: A Randomized Control Study
Capt Brett G. Brazier, DO, San Antonio Military Medical Center

Discussion

Break with Exhibitors

Rapid Fire Sessions 3A – Hand
Moderators: TBD

131 -Guidewire Referencing Dorsal Scaphoid Fixation Technique: A Comparative Cadaveric Study
CDR Jason H. Rockwood, DO, Okinawa Naval Hospital

125 - Hand Surgeons Are Tackling Tougher Scaphoids
CPT Tyler Nicholson, MD, William Beaumont Army Medical Center

217 - Functional Outcomes Following Operative Treatment of Scaphoid Nonunion
LT Nicholas Lake, MD, Naval Medical Center San Diego

Discussion

68 - Capitolunate Fusion: A Systematic Review
CPT Michael M. Polmear, MD, William Beaumont Army Medical Center

101 - Post Traumatic Avascular Necrosis of the Triquetrum
LCDR Sean McIntire, MD, Naval Medical Center San Diego

34 - Streamlining Care for Occult Scaphoid Fractures: A Retrospective Review of the Diagnostic Work-Up
LT Shian Liu, MD, Naval Medical Center San Diego

Discussion

Rapid Fire Sessions 3B - Musculoskeletal Oncology
Moderators: TBD

28 - A Multicentered RCT of Negative Pressure Therapy for Irradiated Soft Tissue Sarcoma Wounds
Capt Sophia A. Traven, MD, Medical University of South Carolina

102 - Publication Trends of Residents Accepted for Musculoskeletal Oncology Fellowships
8:58 am-9:02 am 41 - External Validation of PATHFx Version 3.0 in Patients Treated Surgically and Non-Surgically for Symptomatic Skeletal Metastases
LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center

9:02 am-9:06 am Discussion

9:06 am-9:10 am 203 - Synovial Sarcoma: A Series of Small Tumors in Active Duty Service Members
Capt Taylor J. Bates, MD, San Antonio Military Medical Center

9:10 am-9:14 am 115 - Fellowship-Trained Orthopaedic Oncologist and the Effect on Residency Training
CPT Phillip R. Schneider, MD, William Beaumont Army Medical Center

9:14 am-9:18 am 31 - Improved Survivorship Following Surgical Resection of Primary Tumors in Patients with Metastatic Osteosarcoma
Capt Sophia A. Traven, MD, Medical University of South Carolina

9:18 am-9:22 am Discussion

Rapid Fire Sessions 3C – General Interest
Moderators: TBD

8:50 am-8:54 am 187 - Evaluation of Hip Medical Device Recalls by the FDA from 2007 to 2017
Wesley Peters, BS, Naval Medical Center San Diego

8:54 am-9:58 am 92 - 10 Year Follow-Up of Ceramic-on-Ceramic Total Hip Arthroplasty: Squeaking is Common and Increases Over Time
LT Kevin Taniguchi, MD, Naval Medical Center San Diego

8:58 am-9:02 am 214 - Skiving or Diving: A Mechanical Study on the Sagittal Saw Blade During Total Knee Arthroplasty
Jonathan H. Shaw, MD, Henry Ford Hospital

9:02 am-9:06 am Discussion

9:06 am-9:10 am 98 - Implementation of a Rapid Recovery Peri-operative Arthroplasty Protocol at a Military Treatment Facility
LT Sarah Nelson, MD, MS, Walter Reed National Military Medical Center

9:10 am-9:14 am 182 - Albumin as a Predictor of Total Joint Arthroplasty Complications
Matthew Sloan, MD, MS, University of Pennsylvania

9:14 am-9:18 am 54 - Quality of Evidence Regarding Platelet-Rich Plasma Injections for Knee Osteoarthritis
CPT Andrew G. Chan, MD, MPH, William Beaumont Army Medical Center
Rapid Fire Sessions 3D – Return to Duty and Performance Optimization
Moderators: TBD

8:50 am-8:54 am 209 - In Season Return to Play Following Posterior Shoulder Instability in NCAA Division I Football Players
CPT Daniel L Rodkey, MD, MBA, Walter Reed National Military Medical Center

8:54 am-9:02 am 155 - Return to Play Following Platelet-Rich Plasma Injection of Elbow Ulnar Collateral Ligament Based on Injury Severity
Frederic B. Mills, MS, Palmetto Health - University of South Carolina Orthopaedic Center

8:58 am-9:02 am 231 - Early Analysis of Common Knee Surgery and Ability to Deploy in a Military Population
Lt. Col. Richard J. Robins, MD, United States Air Force Academy

9:02 am-9:06 am Discussion

9:06 am-9:10 am 150 - Patellar Tendon Disruptions in the Active Duty Military Population: A Retrospective Review
CPT Donald R. Fredericks Jr., MD, Walter Reed National Military Medical Center

9:10 am-9:14 am 60 - High Resilience Linked to Short-Term Patient Reported Outcomes and Return to Duty Following Arthroscopic Knee Surgery
CPT Nicholas J. Drayer, MD, Madigan Army Medical Center

9:14 am-9:18 am 196 - Delay in Primary Anterior Cruciate Ligament Reconstruction Increases Medical Separation Risk in the US Military
Veronika Pav, PhD, Kennell and Associates, Inc.

9:18 am-9:22 am Discussion

Special Presentation 2
Moderator:

9:25 am -10:00 am Limb Optimization
Speaker(s)

10:00 am-10:20 am Break with Exhibitors

10:20 am – 10:35 am SOMOS Business Meeting
LtCol Christopher T. LeBrun, MD, R. Adams Cowley Shock Trauma Center
(All Active SOMOS Members Invited to Attend)

Symposium 6 – Spine
Moderator: LCDR Scott C. Wagner, MD, Walter Reed National Military Medical Center
11:05 am-11:11 am  156 - Radiographic Analysis of Cervical Disc Arthroplasty Reoperations  
                      MAJ Griffin Holauchock, PhD, San Antonio Military Medical Center

11:11 am-11:17 am  6 - Are Precontoured Spinal Rods Mechanically Superior to Manually Contoured Rods?  
                      MAJ K. Aaron Shaw, DO, Dwight D. Eisenhower Army Medical Center

11:17 am-11:23 am  112 - Severity of Cervical Paraspinal Muscle Degeneration May Predict Axial Pain Improvement after Anterior Cervical Discectomy and Fusion  
                      Donald R. Fredericks, MD, Walter Reed National Military Medical Center

11:23 am-11:29 am  218 - Cervical Paraspinal Muscle Fatty Degeneration does not relate to Muscle Cross Sectional Area: Qualitative Assessment Preferable for Cervical Sarcopenia  
                      Arjun Sebastian, MD, MS, Mayo Clinic

11:29 am-11:35 am  Discussion

11:35 am-11:41 am  157 - The Timing and Incidence of Surgical Intervention Following Diagnosis of Lumbar Disc Herniation at Military Treatment Facilities  
                      LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center

11:41 am-11:47 am  186 - Minimally Invasive Sacroiliac Joint Fusion in Military Service Members  
                      MAJ(P) Anton Y. Jorgensen, MD, San Antonio Military Medical Center  
                      Kyle Marshall, San Antonio Military Medical Center

11:47 am-11:53 am  221 - Objective Swallowing Abnormalities Following Anterior Cervical Spine Surgery  
                      Capt John Wuellner, MD, University of California, Davis

11:53 am-11:59 am  162 - Outcomes of Failed Lumbar Disc Arthroplasties  
                      MAJ(P) Anton Y. Jorgensen, MD, San Antonio Military Medical Center  
                      Capt Taylor J. Bates, MD, San Antonio Military Medical Center

11:59 am-12:05 pm  Discussion

12:05 am-1:05 pm  **Focused Lunch Presentations**  
                      *CME Credit Not Available**
1:05 pm-2:05 pm  **Scientific E-Poster Session** (Presenters will be available to answer questions.)

2:05 pm-3:05 pm  **Multimedia Education Session**

**Friday, December 20 - Warren Kadrmas Memorial Sports Day**

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

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

6:00 am-4:20 pm  **Meeting Registration**

6:00 am-4:20 pm  **Technical Exhibits, Coffee Breaks and Daily Drawing**

**Symposium 7 – Sports 1**
Moderator:  MAJ Kelly G. Kilcoyne, MD, *William Beaumont Army Medical Center*

7:00 am-7:25 am  New Paradigms in Treatment Shoulder Instability
*John D. Kelly IV, MD, University of Pennsylvania*

7:25 am-7:30 am  Questions

**General Session 7 – Sports 1: Shoulder & Elbow**
Civilian Moderator:  John D. Kelly IV, MD, *University of Pennsylvania*
Military Moderator:  MAJ Kelly G. Kilcoyne, MD, *William Beaumont Army Medical Center*

7:30 am-7:36 am  175 - The Instability Severity Index Score Revisited: Evaluation of 217 Consecutive Cases of Recurrent Anterior Shoulder Instability
*Capt Travis J. Dekker, MD, The Steadman Clinic*

7:36 am-7:42 am  144 - The Incidence and Characteristics of Shoulder Instability at the United States Naval Academy
*CPT Bobby G. Yow, MD, Walter Reed National Military Medical Center*

7:42 am-7:48 am  136 - Combined and Posterior Labral Tears are More Common in a Large Military Population with Operative Shoulder Instability than Previously Reported
*Capt Erin R. Swan, MD, BS, San Antonio Uniformed Services Health Education Consortium*

7:48 am-8:54 am  215 - Novel Technique to Assess Glenoid Bone Loss Using Anterior CoracoGlenoid Line
*Patrick W. Joyner, MD, OrthoCollier*

7:54 am-8:00 am  Discussion

8:00 am-8:06 am  1 - Analysis of Glenohumeral Joint Intraarticular Pressure Measurements in Volume-Limited MR Arthrograms in Patients with Shoulder Instability compared to a Control Group
MAJ Joseph W. Galvin, DO, Madigan Army Medical Center

8:06 am-8:12 am  44 - Return to Sport Following Circumferential Labral Reconstruction in Athletes  
*CPT Michael M. Polmear, MD, William Beaumont Army Medical Center*

8:12 am-8:18 am  32 - The Modified Frailty Index Predicts Morbidity and Mortality in Arthroscopic Rotator Cuff Repair  
*Capt Sophia A. Traven, MD, Medical University of South Carolina*

8:18 am-8:24 am  146 - Return to Duty Following Arthroscopic Assisted Biceps Tenodesis with or without Concomitant Distal Clavicle Excision in Active Duty Soldiers  
*Taylor D. Mansfield, MD, Madigan Army Medical Center*

8:24 am-8:30 am  Discussion

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

**Rapid Fire Sessions 4A – Knee**
Moderators: TBD

8:50 am-8:54 am  201 - Survivability of Primary Anterior Cruciate Ligament Reconstructions in Active Duty Service Members: A Four-Year Case-Control Study  
*Veronika Pav, PhD, Kennell and Associates, Inc.*

8:54 am-9:58 am  89 - Preoperative Sleep Disturbance Linked to Patient Reported Outcomes Following Arthroscopic Knee Surgery  
*CPT Nicholas J. Drayer, MD, Madigan Army Medical Center*

8:58 am-9:02 am  23 - Elevated BMI Predicts Concurrent Surgical Pathology at the Time of Adolescent ACL Reconstruction  
*Capt Sophia A. Traven, MD, Medical University of South Carolina*

9:02 am-9:06 am  Discussion

9:06 am-9:10 am  200 - Does Graft Selection Affect Risk of Failure After Anterior Cruciate Ligament Reconstruction in Active Duty Female Military Members?  
*LT Sarah Nelson, MD, MS, Walter Reed National Military Medical Center*

9:10 am-9:14 am  232 - ACL Reconstruction with Hamstring Autograft and Allograft Augmentation  
*CPT Bryan G. Adams, MD, Madigan Army Medical Center*

9:14 am-9:18 am  78 - Tibial Tubercle Osteotomy for Patellofemoral Instability in an Active-Duty Cohort  
*CPT Liang Zhou, MD, MS, Tripler Army Medical Center*

9:18 am-9:22 am  Discussion
Moderators: TBD

8:50 am-8:54 am  135 - Primary Circumferential Labral Reconstruction: Not Just a Salvage Procedure  
CPT John P. Scanaliato, MD, William Beaumont Army Medical Center

8:54 am-9:58 am  165 - Shoulder Instability in High School Football: Years of Eligibility Remaining  
LT Jessica R. Stambaugh, MD, Naval Medical Center San Diego

8:58 am-9:02 am  180 - Anterior Shoulder Instability in the Professional Athlete: Return to Competition, Time to Return, and Career Length  
Capt Travis J. Dekker, MD, The Steadman Clinic

9:02 am-9:06 am  Discussion

9:06 am-9:10 am  123 - Treatment of an Intercondylar Notch Ganglion Cyst with Arthroscopic Debridement  
LT Nicholas P. Lopreiato, MD, US Naval Hospital Okinawa

9:10 am-9:14 am  225 - Impact of Permissive Mobilization after Biceps Tenodesis on Early Failure Rates  
LT John W Cancian, MD, Naval Medical Center Portsmouth

9:14 am-9:18 am  192 - Readiness Impairment Following Primary Anterior Cruciate Ligament Reconstruction in Infantry ADSMs  
Veronika Pav, PhD, Kennell and Associates, Inc.

9:18 am-9:22 am  Discussion

Rapid Fire Sessions 4C – General Interest

Moderators: TBD

8:50 am-8:54 am  73 - Comparison of Knee and Shoulder Instability Recovery Trends in Military Health System Beneficiaries  
Timothy C. Mauntel, PhD, ATC, Walter Reed National Military Medical Center

8:54 am-9:02 am  93 - Pectoralis Major Reconstruction for Irreperable Ruptures: A Systematic Review  
CPT Phillip R. Schneider, MD, William Beaumont Army Medical Center

8:58 am-9:06 am  8 - MRI of Pectoralis Major Injuries: Mechanism Affects Tear Location  
CPT John D. Synovec, MD MBA, Fort Gordon, GA

9:02 am-9:06 am  Discussion

9:06 am-9:10 am  71 - Surfing Injuries - A Review for the Orthopaedic Surgeon  
Ryan J. Bickley, MD, Tripler Army Medical Center
9:10 am-9:14 am  19 - Outcomes of Pectoralis Major Tears in Active Duty US Military Personnel: A Comparison of Surgical Repairs Performed in the Forward Deployed Setting to Those Performed in the Continental United States
Maj Dane Salazar, MD, Loyola University Hospital System

9:14 am-9:18 am  20 - Acute Pectoralis Major Tears in Active Duty US Military Personnel: Mid-Term Outcomes of Repairs Performed in the Forward Deployed Setting
Maj Dane Salazar, MD, Loyola University Hospital System

9:18 am-9:22 am  Discussion

**Rapid Fire Sessions 4D – Shoulder and Elbow Arthroplasty**
Moderators: TBD

8:50 am-8:54 am  21 - Intraoperative Efficiency in Contemporary Total Shoulder Arthroplasty: Is Manual Pressure During Cement Curing Still Necessary with Interference Fit Pegged Glenoids?
Maj Dane Salazar, MD, Loyola University Hospital System

8:54 am-9:58 am  83 - Evaluation of Polyethylene Liner Dissociation in Reverse Total Shoulder Arthroplasty
2LT Mikalyn T. DeFoor, BS, Medical College of Georgia at Augusta University

8:58 am-9:02 am  104 – Publication Trends of Residents Matching into Shoulder and Elbow Fellowships
CPT Andrew Chan, MD, William Beaumont Army Medical Center

9:02 am-9:06 am  Discussion

9:06 am-9:10 am  199 - Glenoid Bone Loss in Relation to Glenoid Bone Mineral Density
CPT Donald Colantonio III, MD, Walter Reed National Military Medical Center

9:10 am-9:14 am  57 - Total Elbow Arthroplasty: A Surgical Decision-Making Analysis on Outcomes
CPT John P. Scanaliato, MD, William Beaumont Army Medical Center

9:14 am-9:18 am  33 - Smoking is Associated with Increased Surgical Complications Following Total Shoulder Arthroplasty: An Analysis of 14,465 Patients
Alyssa D. Althoff, BS, Medical University of South Carolina

9:18 am-9:22 am  Discussion

**Symposium 8 – Sports 2**
Moderator: MAJ David Tennent, MD, Evans Army Medical Activity

9:25 am-9:50 am  Pediatric Topic
Gregory C. Fanelli, MD, Fanelli Geisinger Sports Injury Clinic

9:50 am-9:55 am  Questions
9:55 am-10:15 am  Break with Exhibitors

General Session 8 – Sports 2
Civilian Moderator:  Gregory C. Fanelli, MD, Fanelli Geisinger Sports Injury Clinic
Military Moderator:  MAJ David Tennent, MD, Evans Army Medical Activity

10:15 am-10:21 am  240 - Prior Sports Specialization is Associated with Lower Extremity Stress Fracture in Service Academy Cadets
Kenneth L. Cameron, PhD, MPH, ATC, Keller Army Hospital

10:21 am-10:27 am  190 - Minimum 5-Year Clinical Outcomes, Survivorship, and Return to Sports after Hamstring Autograft Reconstruction for Sternoclavicular Joint Instability
Capt Travis J. Dekker, MD, The Steadman Clinic

10:27 am-10:33 am  222 - Adolescent Sports Specialization Is Associated with College Sports Ankle Injury
MAJ Michael A. Donohue, MD, Keller Army Community Hospital

10:33 am-10:39 am  154 - Blumensaat’s Line as a Prediction of Native Anterior Cruciate Ligament Length
Frederic B. Mills, MS, Palmetto Health - University of South Carolina Orthopaedic Center

10:39 am-10:45 am  Discussion

10:45 am-10:51 am  130 - Mechanical Testing of ACL Reconstruction Secondary Fixation Devices
MAJ David J. Tennent, MD, John A Feagin Jr. Orthopaedic Sports Medicine Fellowship

10:51 am-10:57 am  66 - Increased Posterior Tibial Slope is Associated with Higher Rates of Anterior Cruciate Ligament Reconstruction Graft Rupture
CPT Christian Cruz, MD, Tripler Army Medical Center

10:57 am-11:03 am  79 - Bone-Patellar Tendon-Autograft (BTA) ACL Reconstruction: Clinical results of New Technique
COL(R) Craig R. Bottoni, MD, Tripler Army Medical Center

11:03 am-11:09 am  205 - Current Practice Patterns in ACL Reconstruction (ACLR) Among Fellowship-Trained Military Orthopaedic Surgeons
CPT Thomas B. Lynch, MD, San Antonio Military Medical Center

11:09 am-11:15 am  Discussion

11:15 am-12:15 pm  Focused Lunch Presentations
*CME Credit Not Available

12:20 pm-12:35 pm  AAOS Update
Kristy L. Weber, MD, President, AAOS, University of Pennsylvania
Symposium 9 – Sports 3
Moderator: LCDR George C. Balazs, MD, Hospital for Special Surgery

12:35 pm-1:00 pm How Combined Version Affects My Hip Scope Practice
Anil S. Ranawat, MD, Hospital for Special Surgery

1:00 pm -1:05 pm Questions

General Session 9 – Sports 3
Civilian Moderator: Anil S. Ranawat, MD, Hospital for Special Surgery
Military Moderator: LCDR George C. Balazs, MD, Hospital for Special Surgery

1:05 pm-1:11 pm 99 - Predictors of Failure After Surgical Treatment of Femoroacetabular Impingement: Results of a Multicenter Prospective Cohort of 621 Hips
Lt Col Matthew R. Schmitz, MD, San Antonio Military Medical Center

1:11 pm-1:17 pm 113 - Periacetabular Osteotomy in US Military Personnel: A Single Center’s Experience
Capt Andrew S. Murtha, MD, San Antonio Military Medical Center

1:17 pm-1:23 pm 191 - Patient Outcomes after Vascularized Tibial Graft for Treatment of Femoral Head Avascular Necrosis
Christopher M. Belyea, MD, Tripler Army Medical Center

1:23 pm-1:29 pm 176 - Minimum 5-Year Outcomes and Return to Sport Following Resection Arthroplasty for the Treatment of Sternoclavicular Osteoarthritis
Capt Travis J. Dekker, MD, The Steadman Clinic

1:29 pm-1:35 pm Discussion

1:35 pm-1:41 pm 100 - Surgical Treatment of Femoroacetabular Impingement: Arthroscopy vs. Surgical Hip Dislocation – A Propensity Matched Analysis
Lt Col Matthew R. Schmitz, MD, San Antonio Military Medical Center

1:41 pm-1:47 pm 137 - Hip Effusion is Predictive of Progression to Surgical Management of Femoral Neck Stress Fractures: A Review in US Military Service Members
Capt Erin R. Swan, MD, BS, San Antonio Uniformed Services Health Education Consortium

1:47 pm-1:53 pm 58 - Lumbar Plexus Block vs. Peri-capsular Injection for Hip Arthroscopy
CPT John P. Scanaliato, MD, William Beaumont Army Medical Center

1:53 pm-1:59 pm 26 - Nationwide Trends in Opioid Prescriptions for Common Orthopaedic Procedures: Are We Over-Prescribing?
Capt Sophia A. Traven, MD, Medical University of South Carolina

1:59 pm-2:05 pm Discussion

2:05 am-2:15 am Break
Special Presentation 3
Moderator:

2:15 pm-2:50 pm  So You Think You Want to Be a Team Physician
Peter Indelicato, MD, University of Florida

Symposium 10 – Foot & Ankle
Moderator: CDR Thomas J. Douglas III, MD, Naval Medical Center Portsmouth

2:50 pm-3:15 pm  Pediatric Topic
Christopher P. Chiodo, MD, Brigham and Women's Hospital

3:15 pm-3:20 pm  Questions

General Session 10 – Foot & Ankle
Civilian Moderator: Christopher P. Chiodo, MD, Brigham and Women's Hospital
Military Moderator: CDR Thomas J. Douglas III, MD, Naval Medical Center Portsmouth

3:20 pm-3:26 pm  152 - Outcomes of Posterior Arthroscopic Reduction and Internal Fixation for the Posterior Malleolar Fragment in Trimalleolar Ankle Fractures
MAJ Kevin Martin, DO, Womack Army Medical Center

3:26 pm-3:32 pm  124 - Characterization of Operatively Treated Osteochondral Lesions of the Talus
CPT Tyler Nicholson, MD, William Beaumont Army Medical Center

3:32 pm-3:38 pm  194 - Patient Reported Outcomes of Lateral Ankle Stabilization in a Military Population: Good Results After Two Years
LT Chihua Lee, MD, Naval Medical Center Portsmouth

3:38 pm-3:44 pm  171 - The Effect of Lateral Column Lengthening on Subtalar Motion
CAPT Mitchell C. Harris, MD, Texas Scottish Rite Hospital for Children

3:44 pm-3:50 pm  Discussion

3:50 pm-3:56 pm  86 - Preoperative Sleep Disturbance Linked to Short-Term Outcomes following Orthopaedic Foot and Ankle Surgery
CPT Nicholas J. Drayer, MD, Madigan Army Medical Center

3:56 pm-4:02 pm  24 - Significant Racial and Ethnic Disparities in Lower Extremity Amputation for Critical Limb Ischemia
Capt Sophia A. Traven, MD, Medical University of South Carolina

4:02 pm-4:08 pm  170 - Open Ankle Fractures: Is Immediate Internal Fixation Safe?
Griffin M. Biedron, MD, William Beaumont Army Medical Center

4:08 pm-4:14 pm  70 - Outcomes after Intramedullary Screw Fixation of Jones Fractures: A Case Series
CPT Ryan B. Bucknam, MD, William Beaumont Army Medical Center

4:14 pm-4:20 pm  Discussion
4:20 pm-5:20 pm  Service Breakouts
   Air Force
   Army
   Navy

5:20 pm-6:20 pm  Multimedia Education Session