ACCREDITATION INFORMATION

PROGRAM COMMITTEE
LTC Thomas C. Dowd, MD - Co-Chair
Maj Andrew J. Sheean, MD - Co-Chair
LTC Jonathan F. Dickens, MD
MAJ Kelly G. Kilcoyne, MD
LtCol Christopher T. LeBrun, MD
CDR Lance E. LeClere, MD
Capt Sophia A. Traven, MD
LCDR Scott C. Wagner, 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 61st 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 27.75 *AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

* 20.25 CME Credits for Scientific Program
* 5 CME Credits for Scientific E-Poster Sessions
* 2.5 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 their outcomes. The SOMOS Annual Meeting provides the opportunity for the military orthopaedic surgery community to share their combined experiences and knowledge, so that individual practitioners can incorporate the most recent advances into
their own current surgical practice. By the end of the Meeting, individual SOMOS attendees will be able to do the following:

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

DISCLAIMER
The Society of Military Orthopaedic Surgeons (SOMOS) is a private not-for-profit organization that is not sponsored by any department or agency of the DoD or local state or federal government. Speakers and exhibitors at the 2019 Society of Military Orthopaedic Surgeons (SOMOS) 61st 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 2019 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 17-20, 2019 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 18-20 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 18-20, at the designated times. A comprehensive selection of AAOS DVDs will be available for your individual education.
Tuesday, December 17

12:00 pm-8:00 pm  **Meeting Registration (PGA Grand Ballroom Foyer)**

12:00 pm-11:59 pm  **Speaker Ready Area (PGA Grand Ballroom Foyer)**

Wednesday, December 18

12:00 am-11:59 pm  **Speaker Ready Area (PGA Grand Ballroom Foyer)**

6:00 am-7:00 am  **Scientific E-Poster Session** (Presenters will be available to answer questions) *(Canterbury Room A, Canterbury Room B, Muirfield Room, St. Andrews Room)*

6:30 am-5:19 pm  **Meeting Registration (PGA Grand Ballroom Foyer)**

6:30 am-5:19 pm  **Technical Exhibits, Coffee Breaks and Daily Drawing (PGA Grand Ballroom)**

**Opening Ceremony**
Moderators:  Maj Andrew J. Sheean, MD,  *San Antonio Military Medical Center*  
LTC Thomas C. Dowd, MD,  *San Antonio Military Medical Center*  
Col 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 and Opening Announcements

**Symposium 1 – Trauma 1**
Moderator:  CDR 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, FACS, Florida Orthopaedic Institute*

7:40 am-7:45 am  Questions

7:45 am-8:05 am  **Break with Exhibitors (PGA Grand Ballroom)**

**General Session 1 – Trauma 1**
Civilian Moderator: Hassan R. Mir, MD, MBA, FACS, Florida Orthopaedic Institute
Military Moderator: LCDR Bradley K. Deafenbaugh, MD, Naval Medical Center San Diego

8:05 am-8:11 am  **Norman T. Kirk Award**
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 Session 1A – Education** *(Canterbury Room A)*
Moderators: LTC Thomas C. Dowd, MD, San Antonio Military Medical Center
CDR Thomas J. Douglas III, MD, Naval Medical Center Portsmouth
9:10 am-9:14 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

9:14 am-9:18 am  103 - Research Productivity of Residents Accepted for Orthopaedic Trauma Fellowships
   CPT Andrew G. Chan, MD, MPH, William Beaumont Army Medical Center

9:18 am-9:22 am  216 - Characterization of Blast Injuries at a Civilian Level 1 Trauma Center
   LT Carl A Nunziato, MD, Dell Seton Medical Center

9:22 am-9:26 am  Discussion

9:26 am-9:30 am  148 - Factors Considered when Ranking Military Orthopedic Surgery Residency Applicants
   CPT Matthew Wells, DO, William Beaumont Army Medical Center

9:30 am-9:34 am  3 - The H-Index and Self-Citation Among Orthopaedic Surgery Fellowship Directors
   MAJ Justin J. Ernat, MD, Blanchfield Army Community Hospital

9:34 am-9:38 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

9:38 am-9:42 am  Discussion

**Rapid Fire Session 1B – Hip/Pelvis Fracture (Canterbury Room B)**
Moderators:  Col Christopher T. LeBrun, MD, R. Adams Cowley Shock Trauma Center
             LT Michelle M. Gosselin, MD, Naval Medical Center Camp Lejeune

9:10 am-9:14 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

9:14 am-9:18 am  219 - Can Partially-Threaded Screws Be Improved to Maximize Sacral Purchase?
   MAJ Shawn Boomsma, DO, Army Trauma Training Detachment - Ryder Trauma Center

9:18 am-9:22 am  181 - Minimally Invasive Lumbopelvic Fixation for Trauma
9:22 am-9:26 am  Discussion

9:26 am-9:30 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

9:30 am-9:34 am  227 - Reliability of the Walter Reed Classification for Heterotopic Ossification Severity  
Benjamin W. Hoyt, MD, Walter Reed National Military Medical Center  
*Presented by CPT William Roach, MD

9:34 am-9:38 am  172 - Internal Fixation vs. Arthroplasty for the Treatment of Non-Displaced Femoral Neck Fractures in the Elderly: A Systematic Review and Meta-Analysis  
LT John T. Richards, MD, Walter Reed National Military Medical Center

9:38 am-9:42 am  Discussion

Rapid Fire Session 1C – Upper Extremity (Muirfield Room)  
Moderator:  Maj Sarah N. Pierrie, MD, Brooke Army Medical Center

9:10 am-9:14 am  160 -Locked Plating Proximal Humeral Fractures with and without Fibula Allograft  
CPT Dexter C. Allen, MD, Tripler Army Medical Center

CPT Griffin M Biedron, MD, William Beaumont Army Medical Center

9:18 am-9:22 am  141 - Pharmacologic Treatments in Chronic Neuropathic Upper Extremity Pain: Systematic Review  
Michael Ramirez, MS, Uniformed Services University  
*Presented by CPT John P. Scanaliato, MD

9:22 am-9:26 am  Discussion

9:26 am-9:30 am  114 - A Surgical Technique for Percutaneous Plating of Ulnar Diaphyseal Fractures  
CPT Desraj M. Clark, MD, Walter Reed National Military Medical Center

9:30 am-9:34 am  10 - Interposition Arthroplasty after Proximal Ulna Reconstruction with Masquelet Technique  
Capt John J. Carroll, MD, Brooke Army Medical Center
Resection of Symptomatic Flexor Carpi Radialis Brevis Muscle

LT Ethan M. Bernstein, MD, MPH, Naval Medical Center San Diego

Discussion

**Rapid Fire Session 1D – Hand (St. Andrews Room)**

Moderators: Lt Col Chance J. Henderson, MD, United States Air Force Academy
CAPT R. Timothy Ruland, MD, Naval Medical Center Portsmouth

9:10 am-9:14 am 51 - Outcomes following Complex Nerve Lacerations in the Volar Forearm
CPT Ryan B. Bucknam, MD, William Beaumont Army Medical Center

9:14 am-9:18 am 75 - Subcutaneous Anterior Transposition vs. In-Situ Decompression of the Ulnar Nerve
CPT Michael D. Eckhoff, MD, William Beaumont Army Medical Center

9:18 am-9:22 am 185 - Anatomical Variations in Pathway of Median Nerve: Gross Cadaver Study
Chika Okafor, MD, Howard University Hospital
*Presented by Chukwuemeka Mbagwu, MD

9:22 am-9:26 am Discussion

9:26 am-9:30 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

9:30 am-9:34 am 48 - Dorsal Bridge Plate for Distal Radius Fracture: A Systematic Review
CPT Austin Fares, MD, William Beaumont Army Medical Center

9:34 am-9:38 am 84 - Bone Morphogenetic Protein in Scaphoid Non-Union: A Systematic Review
CPT Michael M. Polmear, MD, William Beaumont Army Medical Center
*Presented by CPT John P. Scanaliato, MD

9:38 am-9:42 am Discussion

9:42 am-10:02 am Break with Exhibitors (PGA Grand Ballroom)

**Symposium 2 – Trauma 2**

Moderator: LTC Justin T. Fowler, MD, San Antonio Military Medical Center

10:02 am-10:27 am Extreme Nailing of Periarticular Fractures
Walter Virkus, MD, Indiana University Health
10:27 am-10:32 am Questions

**General Session 2 – Trauma 2**

*Civilian Moderator:* Walter Virkus, MD, *Indiana University Health*

*Military Moderator:* LTC Justin T. Fowler, MD, *San Antonio Military Medical Center*

10:32 am-10:38 am 133 - Cell Behaviour following Blast Trauma Influences the Likelihood of Non-Union

*MAJOR Sarah K Stewart, MBChB BMedSci (Hons), Imperial College London*

10:38 am-10:44 am 53 - Effects of a Targeted-Therapy Approach for Post-Traumatic Heterotopic Ossification

*LCDR Marvin Dingle, MD, Walter Reed National Military Medical Center*

*Presented by LT Andres S. Piscoya, MD*

10:44 am-10:50 am 169 - Bisphosphonate Temporal-Spatial Localization and Therapeutic Impact in Burn-Orthopaedic Injury Model

*Capt Samuel L Posey, MD, Carolinas Medical Center*

10:50 am-10:56 am 7 - Pulmonary Complication after Tibial and Femoral Nailing

*LT Benjamin M. Wheatley, MD, Walter Reed National Military Medical Center*

*Presented by LT John T. Richards, MD*

10:56 am-10:59 am Discussion

10:59 am-11:05 am 74 - The Productivity and Utilization of Active Duty Orthopaedic Trauma Surgeons

*CPT Archie Overmann, MD, Walter Reed National Military Medical Center*

11:05 am-11:11 am 121 - Defining the Intramedullary Axis of the Distal Tibia using Computed Tomography

*Capt Haydn J. Roberts, MD, University of Arizona - Tucson*

11:11 am-11:17 am 9 - Effect of Peri-Articular Implants on Contact Pressure across the Knee Joint

*LT Michelle M. Gosselin, MD, Naval Medical Center Camp Lejeune*

11:17 am-11:23 am 158 - Intramedullary Nail Entry Point Affects Postoperative Femoral Shaft Fracture Alignment

*M. Wesley Honeycutt, MD, University of South Alabama*
11:23 am-11:29 am  229 - Readiness and the Interwar Period: Preserving Combat Skills Through Level One Trauma

*COL Joseph F. Alderete MD, San Antonio Military Medical Center

11:29 am-11:32 am  Discussion

11:32 am-12:32 pm  **Focused Lunch Presentations** *(Bella Lago Room, Oakmont Room, Vista Room A, Vista Room B)*

* *CME Credit Not Available*

12:32 pm-12:52 pm  **SOMOS Presidential Address**
Areas of Military Civilian Partnership to Domestic Disaster Planning and Response

*Col Christopher T. LeBrun, MD, R. Adams Cowley Shock Trauma Center

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

12:52 pm-1:17 pm  Advancements in the Care of Upper Extremity Amputees

*R. Glenn Gaston, MD, OrthoCarolina*

1:17 pm-1:22 pm  Questions

**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*

1:22 pm-1:28 pm  **Founder’s Award**
49 - Nerve Repair Using Processed Nerve Allograft in the US Military

*CPT Kyle J. Klahs, DO, William Beaumont Army Medical Center*

1:28 pm-1:34 pm  **Jamie Dianne Bulken-Hoover Memorial - Best Hand Paper Award**
63 - Ultrasound Measurement Criteria for Carpal Tunnel Syndrome: Which is Best?

*Collin S. Black, MS3, Duke University Medical Center*

1:34 pm-1:40 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*

1:40 pm-1:46 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*

1:46 pm-1:52 pm  Discussion
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<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>1:52 pm-1:58 pm</td>
<td>207 - Prospective Evaluation of Open Dorsal Wrist Ganglion Excision in the Active Duty Military Population</td>
<td>LCDR Marvin Dingle, MD, Walter Reed National Military Medical Center</td>
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<td>1:58 pm-2:04 pm</td>
<td>108 - Arthroscopically Assisted Transosseous Triangular Fibrocartilage Complex Foveal Tear Repair</td>
<td>CPT Michael M. Polmear, MD, William Beaumont Army Medical Center</td>
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<td>*Presented by CPT John P. Scanaliato, MD</td>
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<td>2:04 pm-2:10 pm</td>
<td>50 - Functional Outcomes of Processed Nerve Allograft in the US Military</td>
<td>CPT Joshua C. Tadlock, MD, William Beaumont Army Medical Center</td>
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<td>2:10 pm-2:16 pm</td>
<td>161 - Electromyography in Posterior Interosseous Nerve Compression and Surgical Decompression Outcomes</td>
<td>CPT Dexter C. Allen, Doctor of Medicine, Tripler Army Medical Center</td>
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<td>2:16 pm-2:22 pm</td>
<td>Discussion</td>
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<td><strong>Special Presentation 1 – The Future of War Trauma</strong></td>
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<tr>
<td>2:22 pm-2:47 pm</td>
<td>The Future of War Trauma</td>
<td>Kenneth J. Nelson, MD, Womack Army Medical Center</td>
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<td>Admiral Bruce L. Gillingham, MD, Navy Bureau of Medicine and Surgery</td>
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<td>Brig Gen (Ret) Kory Cornum, MD, Palisade, CO</td>
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<td>2:47 pm-2:52 pm</td>
<td>Discussion</td>
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<td>2:52 pm-3:12 pm</td>
<td><strong>Break with Exhibitors (PGA Grand Ballroom)</strong></td>
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<td><strong>Symposium 4 – Pediatrics</strong></td>
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<td>3:12 pm-3:37 pm</td>
<td>Orthopedics and the Great Power Competition</td>
<td>Admiral Bruce L. Gillingham, MD, Navy Bureau of Medicine and Surgery</td>
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<td>3:37 pm-3:42 pm</td>
<td>Questions</td>
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<td><strong>General Session 4 – Pediatrics</strong></td>
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<tr>
<td>3:42 pm-3:48 pm</td>
<td>128 - Open Fractures of the Phalangeal Head and Neck in Children</td>
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CPT J. Banks Deal Jr., MD, Tripler Army Medical Center

3:48 pm-3:54 pm  16 - Inappropriate Pediatric Orthopaedic Emergency Department Transfers: A Burden on the Healthcare System
Brandon Hull, MD, University of Texas Southwestern

3:54 pm-4:00 pm  129 - Pediatric Orthopaedic Surgeon Time Utilization in Clinic: The EMR and Click Fatigue
CAPT William Hennrikus, MD, Penn State College of Medicine

4:00 pm-4:06 pm  13 - Botulinum Toxin May Delay or Prevent Surgery in Spastic Hemiplegic Cerebral Palsy
Stephen Gates, MD, University of Texas Southwestern Medical Center
*Presented by R. Lane Wimberly, MD

4:06 pm-4:12 pm  Discussion

4:12 pm-4:18 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

4:18 pm-4:24 pm  38 - Pediatric Navicular-Medial Cuneiform Tarsal Coalitions: A Case Series
Megan E. Fischer-Colbrie, BS, Naval Medical Center San Diego

4:24 pm-4:30 pm  120 - Functional Implications of the Flat-Topped Talus in Idiopathic Clubfoot Deformity
Anthony I. Riccio, MD, Texas Scottish Rite Hospital for Children

4:30 pm-4:36 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

4:36 pm-4:42 pm  Discussion

Rapid Fire Session 2A – Nerves (Canterbury Room A)
Moderators:  Maj Julia A. V. Nuelle, MD, San Antonio Military Medical Center
            CDR Scott M. Tintle, MD, Walter Reed National Military Medical Center

4:47 pm-4:51 pm  97 - Supercharge End-to-Side Nerve Transfer: Systematic Review
Isaac Fernandez, MD, Texas Tech University Health Sciences Center

4:51 pm-4:55 pm  76 - Combat-Sustained Peripheral Nerve Injuries in the US Military
CPT Michael D. Eckhoff, MD, William Beaumont Army Medical Center

4:55 pm-4:59 pm  46 - Combat Sustained Peripheral Nerve Injury Outcomes
CPT Tyler Nicholson, MD, William Beaumont Army Medical Center
4:59 pm-5:05 pm  Discussion
5:05 pm-5:09 pm  139 - Radial Nerve Palsies in Humeral Shaft Fractures: A Systematic Review  
_Erik Hegeman, BS, Uniformed Services University_
5:09 pm-5:13 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 M. Wade, MD, Walter Reed National Military Medical Center_
5:13 pm-5:19 pm  Discussion

**Rapid Fire Session 2B – Hand (Canterbury Room B)**

**Moderators:**  
_LCDR Ryan Ponton, MD, Naval Medical Center San Diego_  
_MAJ John C. Dunn, MD, William Beaumont Army Medical Center_

4:47 pm-4:51 pm  109 - Botulinum Therapy for Vasospastic Disease of the Hand: A Systematic Review  
_CPT Christopher Alberts, DO, William Beaumont Army Medical Center_
4:51 pm-4:55 pm  90 – Pre-Operative Sleep Disturbance Linked to Patient Outcomes following Orthopaedic Hand Surgery  
_CPT Nicholas J. Drayer, MD, Madigan Army Medical Center_
4:55 pm-4:59 pm  126 - Ulnar Metacarpal Base Fracture-Dislocations: Treatment Options and Literature Review  
_John B. Fuller, MD, William Beaumont Army Medical Center_
4:59 pm-5:03 pm  Discussion
5:03 pm-5:07 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_  
*_Presented by Capt Sophia A. Traven, MD_
5:07 pm-5:11 pm  64 - Factors Affecting Decision-Making Regarding Antibiotics for Elective Hand Surgery  
_CPT Tyler Nicholson, MD, William Beaumont Army Medical Center_
5:11 pm-5:15 pm  37 - Resilience and Patient-Reported Outcomes in Patient Undergoing Orthopaedic Hand Surgery  
_CPT Nicholas J. Drayer, MD, Madigan Army Medical Center_
5:15 pm-5:19 pm  Discussion
Rapid Fire Session 2C – Practice and Pain Management *(Muirfield Room)*
Moderator: MAJ Dionisio Ortiz III, MD, *Fort Drum MEDDAC*
CDR Keith A. Alfieri, MD, *Naval Medical Center San Diego*

4:47 pm-4:51 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_

4:51 pm-4:55 pm 117 - Billing and Coding Education and Knowledge among Military Orthopaedic Surgeons
_CPT Matthew Mangini, MD, San Antonio Military Medical Center_

4:55 pm-4:59 pm 116 - Opioid Prescribing Patterns and Patient Satisfaction with Care
_MAJ Nathan Lanham, MD, Martin Army Community Hospital_

4:59 pm-5:03 pm Discussion

5:03 pm-5:07 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_

5:07 pm-5:11 pm 105 - Opioid Prescribing Patterns for United States Military Veterans with a History of Musculoskeletal Injury
_ENS Katina Kartalias, MS, The George Washington University School of Medicine_

5:11 pm-5:15 pm 147 - Multivitamin Use in Enhanced Recovery after Surgery Protocols: A Cost Analysis
_Capt Dawn M. G. Rask, MD, San Antonio Military Medical Center_

5:15 pm-5:19 pm Discussion

Rapid Fire Session 2D – Spine *(St. Andrews Room)*
Moderators: MAJ Bryan K. Lawson, MD, *Nellis Air Force Base*
LCDR Scott C. Wagner, MD, *Walter Reed National Military Medical Center*

4:47 pm-4:51 pm 166 - Radiographic Analysis of Lumbar Disc Arthroplasty Reoperations
_CPT Darshan Shah, MD, San Antonio Military Medical Center_

4:51 pm-4:55 pm 230 - Analysis of Severe Dysphagia Patients following Anterior Cervical Spine Surgery
_Capt John Wuellner, MD, University of California, Davis_

5:03 pm-5:07 pm Discussion
4:55 pm-4:59 pm  111 - Cervical Paraspinal Muscle Fat Infiltration Can Be Estimated by Computed Tomography Hounsfield Units  
*CPT Donald R. Fredericks Jr., MD, Walter Reed National Military Medical Center  
*Presented by CPT William Roach, MD

4:59 pm-5:03 pm  Discussion

5:03 pm-5:07 pm  149 - Sacroiliac Fusion Revision: A Case Series-Based Technique Guide  
*CPT Daniel J. Cognetti, MD, Brooke Army Medical Center

5:07 pm-5:11 pm  11 - Burst Fracture Managed with XLIF and Posterior Instrumentation: Technical Note  
*Capt John J. Carroll, MD, Brooke Army Medical Center

5:11 pm-5:15 pm  12 - Vertically Unstable Sacral Fracture Non-Union Revised with Iliac-Iliac Fixation  
*Capt John J. Carroll, MD, Brooke Army Medical Center

5:15 pm-5:19 pm  Discussion

5:20 pm-6:20 pm  Scientific E-Poster Session (Presenters will be available to answer questions)  
(Canterbury Room A, Canterbury Room B, Muirfield Room, St. Andrews Room)

6:20 pm-6:50 pm  Multimedia Education Session (PGA Grand Ballroom Foyer)

Thursday, December 19 (SOMOS Gear Day)

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

6:00 am-7:00 am  Scientific E-Poster Session (Presenters will be available to answer questions)  
(Canterbury Room A, Canterbury Room B, Muirfield Room, St. Andrews Room)

6:30 am-12:37 pm  Meeting Registration (PGA Grand Ballroom Foyer)

6:30 am-12:37 pm  Technical Exhibits, Coffee Breaks and Daily Drawing (PGA Grand Ballroom)

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

7:30 am – 8:00 am **Focused Breakfast Presentation**  
*CME Credit Not Available*

**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*

8:00 am-8:06 am 22 - Resilience and Patient-Reported Outcomes in Patients Undergoing Total Hip Arthroplasty  
*CPT Nicholas J. Drayer, MD, Madigan Army Medical Center*

8:06 am-8:12 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*

8:12 am-8:18 am 195 - Fixed-Bearing Medial Unicondylar Knee Arthroplasty: Slight Varus, Just Right  
*CPT Sean E. Slaven, MD, Walter Reed National Military Medical Center*

8:18 am-8:24 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*  
*Presented by LCDR Brian Barlow, MD*

8:24 am-8:30 am Discussion

8:30 am-8:36 am 134 - Isolated Tibial Revision with a Cruciate Retaining Femoral Component: Can You Stay CR?  
*CDR Robert W. Tracey, MD, Rush University Medical Center*

8:36 am-8:42 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*

8:42 am-8:48 am 27 - Survivorship following Resection of Primary Tumors in Patients with Metastatic Soft Tissue Sarcoma  
*Capt Sophia A. Traven, MD, Medical University of South Carolina*

8:48 am-8:54 am 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

8:54 am-9:00 am Discussion

9:00 am – 9:20 am Break with Exhibitors (PGA Grand Ballroom)

**Rapid Fire Session 3A – Hand (Canterbury Room A)**
Moderator: Col P. Shea Brannan, MD, Eglin Air Force Base

9:20 am-9:24 am 131 - Guidewire Referencing Dorsal Scaphoid Fixation Technique: A Comparative Cadaveric Study
_CDR Jason H. Rockwood, DO, Okinawa Naval Hospital_

9:24 am-9:28 am 125 - Hand Surgeons are Tackling Tougher Scaphoids
_CPT Tyler Nicholson, MD, William Beaumont Army Medical Center_

9:28 am-9:32 am 217 - Functional Outcomes Following Operative Treatment of Scaphoid Non-Union
_LT Nicholas Lake, MD, Naval Medical Center San Diego_

9:32 am-9:36 am Discussion

9:36 am-9:40 am 68 - Capitolunate Fusion: A Systematic Review
_CPT Michael M. Polmear, MD, William Beaumont Army Medical Center_
*Presented by CPT John P. Scanaliato, MD*

9:40 am-9:44 am 101 – Post-Traumatic Avascular Necrosis of the Triquetrum
_LCDR Sean McIntire, MD, Naval Medical Center San Diego_

9:44 am-9:48 am 34 - Streamlining Care for Occult Scaphoid Fractures: A Retrospective Review of the Diagnostic Work-Up
_LT Shian Liu, MD, Naval Medical Center San Diego_

9:48 am-9:52 am Discussion

**Rapid Fire Session 3B – Musculoskeletal Oncology (Canterbury Room B)**
Moderator: LtCol Dustin Lybeck, MD, San Antonio Military Medical Center

9:20 am-9:24 am 28 - A Multicentered RCT of Negative Pressure Therapy for Irradiated Soft Tissue Sarcoma Wounds
_Capt Sophia A. Traven, MD, Medical University of South Carolina_

9:24 am-9:28 am 102 - Publication Trends of Residents Accepted for Musculoskeletal Oncology Fellowships
_CPT Andrew G. Chan, MD, MPH, William Beaumont Army Medical Center_
<table>
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<th>Time</th>
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| 9:28 am-9:32 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* |
| 9:32 am-9:36 am | **Discussion**                                                          |
| 9:36 am-9:40 am | **203 - Synovial Sarcoma: A Series of Small Tumors in Active Duty Service Members**  
*Capt Taylor J. Bates, MD, San Antonio Military Medical Center* |
| 9:40 am-9:44 am | **115 - Fellowship-Trained Orthopaedic Oncologist and the Effect on Residency Training**  
*CPT Phillip R. Schneider, MD, William Beaumont Army Medical Center* |
| 9:44 am-9:48 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* |
| 9:48 am-9:52 am | **Discussion**                                                          |

**Rapid Fire Session 3C – Return to Duty and Performance Optimization (Muirfield Room)**  
**Moderators:** MAJ Gregory Van Blarcum, MD, *Carl R. Darnall Army Medical Center*  
<table>
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| 9:20 am-9:24 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* |
| 9:24 am-9:28 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* |
| 9:28 am-9:32 am | **231 - Early Analysis of Common Knee Surgery and Ability to Deploy in a Military Population**  
*Lt. Col. R. Judd. Robins, MD, United States Air Force Academy* |
| 9:32 am-9:36 am | **Discussion**                                                          |
| 9:36 am-9:40 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* |
9:40 am-9:44 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

9:44 am-9:48 am  196 - Delay in Primary Anterior Cruciate Ligament Reconstruction Increases Medical Separation Risk in the US Military
Veronika Pav, PhD, Kennell and Associates, Inc.

9:48 am-9:52 am  Discussion

Rapid Fire Session 3D – General Interest *(St. Andrews Room)*
Moderator:    CDR Thomas J. Douglas III, MD, Naval Medical Center Portsmouth

9:20 am-9:24 am  187 - Evaluation of Hip Medical Device Recalls by the FDA from 2007 to 2017
Wesley Peters, BS, University of Texas Medical Branch at Galveston

9:24 am-9:28 am  92 – Ten-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
*Presented by LCDR Brian Barlow, MD

9:28 am-9:32 am  214 - Skiving or Diving: A Mechanical Study on the Sagittal Saw Blade During Total Knee Arthroplasty
Jonathan H. Shaw, MD, Henry Ford Hospital
*Presented by CPT Erickson Andrews, MD

9:32 am-9:36 am  Discussion

9:36 am-9:40 am  98 - Implementation of a Rapid Recovery Perioperative Arthroplasty Protocol at a Military Treatment Facility
LT Sarah Nelson, MD, MS, Walter Reed National Military Medical Center

9:40 am-9:44 am  182 - Albumin as a Predictor of Total Joint Arthroplasty Complications
Matthew Sloan, MD, MS, University of Pennsylvania
*Presented by Chukwuemeka Mbagwu, MD

9:44 am-9:48 am  54 - Quality of Evidence Regarding Platelet-Rich Plasma Injections for Knee Osteoarthritis
*CPT Andrew G. Chan, MD, MPH, William Beaumont Army Medical Center

9:48 am-9:52 am  Discussion

Special Presentation 2 - What is the State of the Art in Combat Extremity Care?
Moderator:    Col Christopher T. LeBrun, MD, R. Adams Cowley Shock Trauma Center
9:57 am-10:04 am Combat Lower Extremity Care: State of the Art
COL Joseph F. Alderete Jr., MD, San Antonio Military Medical Center

10:04 am-10:11 am Combat Upper Extremity Care: State of the Art
CDR Scott M. Tintle, MD, Walter Reed National Military Medical Center

10:11 am-10:18 am Advances in Limb Optimization
COL B. Kyle Potter, MD, Walter Reed National Military Medical Center

10:18 am-10:32 am Discussion

10:32 am-10:52 am Break with Exhibitors (PGA Grand Ballroom)

10:52 am-11:07 am SOMOS Business Meeting
Col 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

11:07 am-11:32 am Controversies in the Surgical Treatment of Spinal Injury
Christopher K. Kepler, MD, MBA, Rothman Orthopaedic Institute

11:32 am-11:37 am Questions

General Session 6 – Spine
Civilian Moderator: Christopher K. Kepler, MD, MBA, Rothman Orthopaedic Institute
Military Moderator: Lcdr Scott C. Wagner, MD, Walter Reed National Military Medical Center

11:37 am-11:43 am 156 - Radiographic Analysis of Cervical Disc Arthroplasty Reoperations
MAJ Griffin Holauchock, PhD, San Antonio Military Medical Center

11:43 am-11:49 am 6 - Are Pre-Contoured Spinal Rods Mechanically Superior to Manually Contoured Rods?
MAJ K. Aaron Shaw, DO, Dwight D. Eisenhower Army Medical Center

11:49 am-11:55 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
*Presented by LT Brett Monson, MD, MA

11:55 am-12:01 pm 218 - Cervical Paraspinal Muscle Fatty Degeneration does not relate to Muscle Cross Sectional Area: Qualitative Assessment Preferable for Cervical Sarcopenia
12:01 pm - 12:07 pm  Discussion

12:07 pm - 12:13 pm  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

12:13 pm - 12:19 pm  186 - Minimally Invasive Sacroiliac Joint Fusion in Military Service Members
  MAJ(P) Anton Y. Jorgensen, MD, San Antonio Military Medical Center
  *Presented by CPT Kyle D. Marshall, MD

12:19 pm - 12:25 pm  221 - Objective Swallowing Abnormalities following Anterior Cervical Spine Surgery
  Capt John Wuellner, MD, University of California, Davis

12:25 pm - 12:31 pm  162 - Outcomes of Failed Lumbar Disc Arthroplasties
  Capt Taylor J. Bates, MD, San Antonio Military Medical Center

12:31 pm - 12:37 pm  Discussion

1:37 pm - 2:37 pm  Scientific E-Poster Session (Presenters will be available to answer questions) (Canterbury Room A, Canterbury Room B, Muirfield Room, St. Andrews Room)

2:37 pm - 4:07 pm  Multimedia Education Session (PGA Grand Ballroom Foyer)

Friday, December 20 - Warren Kadrmas Memorial Sports Day

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

6:00 am - 7:00 am  Scientific E-Poster Session (Presenters will be available to answer questions) (Canterbury Room A, Canterbury Room B, Muirfield Room, St. Andrews Room)

6:30 am - 5:05 pm  Meeting Registration (PGA Grand Ballroom Foyer)

6:30 am - 5:05 pm  Technical Exhibits, Coffee Breaks and Daily Drawing (PGA Grand Ballroom)

Symposium 7 – Sports 1
Moderator:  LTC Kelly G. Kilcoyne, MD, Walter Reed National Military Medical Center
New Paradigms in Treatment Shoulder Instability  
*John D. Kelly IV, MD, University of Pennsylvania*

Questions

**General Session 7 – Sports 1: Shoulder & Elbow**

Civilian Moderator:  
*John D. Kelly IV, MD, University of Pennsylvania*

Military Moderator:  
*LTC Kelly G. Kilcoyne, MD, Walter Reed National Military 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, San Antonio Military Medical Center*

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 Intra-Articular Pressure Measurements in Volume-Limited MR Arthograms 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*  
*Presented by CPT John P. Scanaliato, MD*

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
Rapid Fire Session 4A – Knee (Canterbury Room A)
Moderator: Clayton Nuelle, MD, The San Antonio Orthopaedic Group

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

8:54 am-8:58 am 89 – Pre-Operative 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
*Presented by CPT Christian Cruz, MD

9:18 am-9:22 am Discussion

Rapid Fire Session 4B – Shoulder (Canterbury Room B)
Moderators: Col Robert T. Sullivan, MD, Roper St. Francis Physician Partners
Capt Travis J. Dekker, MD, The Steadman Clinic

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-8:58 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 Session 4C – General Interest (Muirfield Room)**  
Moderator: MAJ David J. Tennent, MD, Evans Army Medical Activity

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-8:58 am  93 - Pectoralis Major Reconstruction for Irreperable Ruptures: A Systematic Review  
*CPT Phillip R. Schneider, MD, William Beaumont Army Medical Center*

8:58 am-9:02 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 Session 4D – Shoulder and Elbow Arthroplasty (St. Andrews Room)
Moderator:  Maj Andrew J. Sheean, MD, San Antonio Military Medical Center

8:50 am-8:54 am  21 – Intra-Operative 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-8:58 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 Reaction to Biocomposite and PEEK Suture Anchors Following Arthroscopic Labral Repairs
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
*Presented by Capt Sophia A. Traven, MD

9:18 am-9:22 am  Discussion
Symposium 8 – Sports 2
Moderator: MAJ David J. Tennent, MD, Evans Army Medical Activity

9:27 am-9:52 am Practical Management of the Multiple Ligament Injured (Dislocated) Knee
Gregory C. Fanelli, MD, Fanelli Geisinger Sports Injury Clinic

9:52 am-9:57 am Questions

9:57 am-10:17 am Break with Exhibitors (PGA Grand Ballroom)

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

10:17 am-10:23 am 240 - Prior Sports Specialization is Associated with Lower Extremity Stress Fracture in Service Academy Cadets
Kenneth L. Cameron, PhD, MPH, ATC, United States Military Academy

10:23 am-10:29 am 190 - Minimum Five-Year Clinical Outcomes, Survivorship, and Return to Sports after Hamstring Autograft Reconstruction for Sternoclavicular Joint Instability
Capt Travis J. Dekker, MD, The Steadman Clinic

10:29 am-10:35 am 222 - Adolescent Sports Specialization is Associated with College Sports Ankle Injury
MAJ Michael A. Donohue, MD, Keller Army Community Hospital

10:35 am-10:41 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

10:41 am-10:49 am Discussion

10:49 am-10:55 am 130 - Mechanical Testing of ACL Reconstruction Secondary Fixation Devices
MAJ David J. Tennent, MD, John A Feagin Jr. Orthopaedic Sports Medicine Fellowship

10:55 am-11:01 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

11:01 am-11:07 am 205 - Current Practice Patterns in ACL Reconstruction (ACLR) Among Fellowship-Trained Military Orthopaedic Surgeons
11:07 am-11:15 am  Discussion

11:15 am-12:15 pm  **Focused Lunch Presentations** *(Oakmont Room, Bella Lago Room, Vista Room A, Vista Room B)*  
*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  The Evolution and Natural History of the CAM Lesion? Who and When to Treat Hip Impingement Surgically  
*Henry Bone Ellis Jr., MD, Texas Scottish Rite Hospital for Children*

1:00 pm -1:05 pm  Questions

**General Session 9 – Sports 3**  
Civilian Moderator: Henry Bone Ellis Jr., MD, *Texas Scottish Rite Hospital for Children*  
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 Fibular Graft for Treatment of Femoral Head Avascular Necrosis  
*Christopher M. Belyea, MD, Tripler Army Medical Center*

1:23 pm-1:29 pm  176 - Minimum Five-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

2:05pm-2:15 pm  
*Refreshment Break (PGA Grand Ballroom Foyer)*

**Special Presentation 3 - Team Physician**  
**Moderator:** Maj Andrew J. Sheean, MD, *San Antonio Military Medical Center*

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  
Understanding and Treating Peroneal Tendon Pathology  
*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, Evans Army Community Hospital*

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 Chihu 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 – Pre-Operative 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  
*Presented by CPT John P. Scanaliato, MD

4:14 pm-4:20 pm  Discussion

Panel Discussion – Ask the Experts
Moderator:  CDR James R. Bailey, MD, Naval Medical Center San Diego

4:25 pm-5:05 pm  Case Presentations & Discussion  
Panel:  Henry Bone Ellis Jr., MD, Texas Scottish Rite Hospital for Children  
Gregory C. Fanelli, MD, Fanelli Geisinger Sports Injury Clinic  
John D. Kelly IV, MD, University of Pennsylvania

5:15 pm-6:15 pm  Service Breakouts  
Air Force (Vista Room A)  
Army (British Open Ballroom)  
Navy (Oakmont Room)

6:15 pm-6:45 pm  Multimedia Education Session (PGA Grand Ballroom Foyer)
Station A

ADULT RECONSTRUCTION

Poster 1
168 - Research Productivity of Residents Matching into Adult Reconstruction Fellowships
CPT Andrew G. Chan, MD, MPH, William Beaumont Army Medical Center

Poster 2
127 - Why are Patients undergoing Total Knee Arthroplasty before Age 50?
LT Aaron A Olsen, DO, Naval Medical Center Portsmouth

Poster 3
167 - Perioperative Low Back Pain in Hip Arthroscopy for Femoroacetabular Impingement (FAI)
LT Jessica R. Stambaugh, MD, Naval Medical Center San Diego

FOOT & ANKLE

Poster 4
235 – “Don’t Make the Gap” Surgical Technique for Chronic Achilles
CPT Jacob M. Arthur, MD, Tripler Army Medical Center
*Presented by CPT Connor Venrick, MD

Poster 5
55 - Comparison of Visual Analog Pain Score Reported to Physician vs. Nurse in Postoperative Foot and Ankle Patients
2LT Trevor McBride, BS, Sidney Kimmel Medical College at Thomas Jefferson University

Poster 6
80 - Syndesmotic Reconstruction for Chronic Pain and Instability after Failed Fixation
LT Stephanie Price, MD, MPH, Naval Medical Center San Diego

HAND & WRIST

Poster 7
151 - Surgical Exposure of the Distal Radius in the Setting of a Flexor Carpi Radialis Brevis
Capt Taylor J. Bates, MD, San Antonio Military Medical Center

Poster 8
62 - Ultrasound; A Potentially More Accurate Diagnosis of Carpal Tunnel Syndrome
Collin S. Black, MS3, Duke University Medical Center

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