

ACCREDITATION INFORMATION

PROGRAM COMMITTEE

LTC Daniel J. Song, MD – Co-Chair
LTC David J. Tennent, MD – Co-Chair
COL Daniel J. Stinner, MD, PhD
LCDR Marvin E. Dingle, MD
CPT Erik Hegeman, MD
Col. R. Judd Robins, MD
MAJ Sean E. Slaven, MD
CDR Jennifer L. Smith, 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 66th Annual Meeting of the Society of Military Orthopaedic Surgeons has been developed primarily for orthopaedic and trauma surgeons.

PURPOSE

1. Provide a forum for the dissemination of military-specific orthopaedic knowledge relevant to military surgeons and servicemembers.
2. Provide attendees with the latest surgical, clinical, and research advances in each orthopaedic sub-specialty area.

OBJECTIVES

Educational objectives will be met through a combination of paper presentations, lectures and symposia in plenary and specialty sessions including open discussion with the lecturers and paper presenters. Following participation in the Scientific Program, attendees should be able to:

1. Critically evaluate orthopaedic diseases and treatments through evidenced based outcome presentations.
2. Discuss basic science and clinical research and its implications for diagnosis and treatment of orthopaedic diseases.
3. Enhance and maximize clinical and operative skills by integrating new information into their practice.

These educational objectives will be obtained through paper presentations, instructional courses, guest lectureships, symposia, multimedia educational sessions and poster sessions.

ACCREDITATION STATEMENT

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 Society of Military Orthopaedic Surgeons 66th Annual Meeting, December 10 – 13, 2024 to be held in Nashville, Tennessee for an approximate maximum of 26.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The Scientific Program is 24.25 AMA PRA Category 1 Credits™
The Posters are 2.5 AMA PRA Category 1 Credits™

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 2024 Society of Military Orthopaedic Surgeons (SOMOS) 66th 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 2024 Annual Meeting do not constitute endorsement, concurrence, validation or official position of SOMOS or any other department or agency.

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 10 – 13 during the Scientific Program. **Please note on the Scientific Program Schedule the designated times the poster presenters will be available for discussion.**

**SOMOS Scientific Program
December 9-13, 2024
Loews Vanderbilt
Nashville, TN**

Monday, December 9

7:30 am-4:00 pm **MAST Pre-Course Lab & Didactic – Foot & Ankle**

Tuesday, December 10

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

Opening Ceremony

Moderators: COL Daniel J. Stinner, MD, PhD, *Vanderbilt University Medical Center*
LTC Daniel J. Song, MD, *Walter Reed National Military Medical Center*
LTC David J. Tennent, MD, *San Antonio Military Medical Center*

7:00 am-7:10 am Color Guard

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

**CME Credit not available*

Symposium 1 – Sports Foot & Ankle

7:20 am-7:40 am Title TBD
Nicholas L. Strasser, MD, Vanderbilt University

7:40 am-8:00 am Title TBD
Richard D. Ferkel, MD, Southern California Orthopedic Institute

8:00 am-8:10 am Discussion

Concurrent Session 1A – Foot & Ankle

8:15 am-8:20 am 5 - Prevalence of Osteochondral Lesions of the Talus in Chronic Ankle Instability
LTC Kevin D. Martin, DO, Ohio State University College of Medicine

8:20 am-8:25 am 26 - Do Tourniquets Affect the Postoperative Interstitial Concentrations of Cefazolin in Closed Foot and Ankle Fractures Undergoing Open Reduction and Internal Fixation? A Prospective Observational Study

CPT Erik Hegeman, MD, Brooke Army Medical Center

- 8:25 am-8:30 am 65 - Functional Outcomes of Achilles Repair in the U.S. Military
LT Anneliese Vitha, MD, Naval Medical Center San Diego
- 8:30 am-8:35 am 109 - Radiographic Results of Percutaneous Reduction of Calcaneal
Fractures and Posterior Arthroscopic Subtalar Arthrodesis (C-PASTA)
LTC Kevin D. Martin, DO, Ohio State University College of Medicine
- 8:35 am-8:40 am Discussion
- 8:40 am-8:45 am 120 - Prospective Comparison of Stress Radiographs in Weber B Ankle
Fractures
Matthew J. Siebert, MD, University of Utah Health
- 8:45 am-8:50 am 198 - Five-Year Reoperation Rates Following Ankle Fractures in Patients
with Concomitant Ankle Arthroscopic Procedures
*ENS Emile-Victor Kuyl, BS, George Washington University School of
Medicine and Health Sciences*
- 8:50 am-8:55 am 225 - Outcomes of the Modified Kidner Procedure for Accessory
Navicular in the Setting of a Flat Foot Deformity
CPT David Fogg, MD, WBAMC Orthopaedic Surgery Residency Program
- 8:55 am-9:00am 283 - Wound Complications of Rapide vs Nylon Sutures in Foot and
Ankle Surgery
Capt Jacob I. Priester, MD, University of California, Davis
- 9:00 am-9:05 am Discussion

Concurrent Session 1B – Practice Management

- 8:15 am-8:20 am 69 - Leadership Development within a Military Orthopaedic Surgery
Program: A Survey
CPT Edmund P. Mullin, MD, Brooke Army Medical Center
- 8:20 am-8:25 am 85 - Quantifying Influence: The Orthopaedic PAC's Impact Explored
through FEC Data
CPT Vidushan Nadarajah, MD, University of Virginia
- 8:25 am-8:30 am 260 - Comparative Analysis of Knee Osteoarthritis Treatment Information
on Popular Social Media Platforms
Manish Pathuri, BS, Pritzker School of Medicine

8:30 am-8:35 am	134 - Comparing Training Utility of Cadaveric Models to Sawbones in Orthopaedic Surgery Resident Education <i>LT Cord J. Peters, MD, Naval Medical Center Portsmouth</i>
8:35 am-8:40 am	Discussion
8:40 am-8:45 am	219 - Cancer Incidence in Male Orthopaedic Surgeons <i>Sara S. Van Nortwick, MD, The Medical University of South Carolina</i>
8:45 am-8:50 am	241 - Satisfaction of Civilians Treated at a Military Training Facility <i>Capt Jantz J. Arbon, MD, Brooke Army Medical Center</i>
8:50 am-8:55 am	242 - Impact of Transitioning to a Level I Trauma Center on Orthopaedic Surgical Volume and Resident Education <i>Darlington Nwaudo, MD, University of Chicago Medical Center</i>
8:55 am-9:00am	248 - Factors Influencing Resident Satisfaction at MTFs and ERSAs <i>CPT Anthony N. Gavalas, MD, William Beaumont Army Medical Center</i>
9:00 am-9:05 am	Discussion
9:05 am-9:25 am	<i>Refreshment Break</i>

Concurrent Session 2A – Panel Discussion: Foot & Ankle Case Debate

9:25 am-10:15 am	Panel: <i>COL Thomas Dowd, Evans Army Community Hospital</i> <i>Richard D. Ferkel, MD, Southern California Orthopedic Institute</i> <i>Bethany Gallagher, MD, Vanderbilt University Medical Center</i> <i>Nicholas L. Strasser, MD, Vanderbilt University Medical Center</i>
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Concurrent Session 2B – Basic Science & Infection

9:25 am-9:30 am	32 - Proteomic Analysis of Synovial Fluid in Patients with Shoulder Instability <i>CPT Rachel Milam, MD, Madigan Army Medical Center</i>
9:30 am-9:35 am	100 - Preventing Complications of Deep Infection in Complex Hosts <i>Maj Helen S. M. Smith, BMBCh MA PGCert, Defence Medical Deanery</i>
9:35 am-9:40 am	118 - How Orthopaedic Research Benefits from the Implementation of AI <i>CPT James Pruneski, MD, Tripler Army Medical Center</i>

- 9:40 am-9:45 am 122 - Do Antibiotic Bead Pouches Prevent Surgical Site Infections and Complications in Patients with Severe Lower Extremity Open Fractures?
CPT Umar A. Khan, MD, Walter Reed National Military Medical Center
- 9:45 am-9:50 am Discussion
- 9:50 am-9:55 am 129 - Bone Mineral Density Using Hounsfield Units – Establishing a Hounsfield Unit Scale
CPT Umar A. Khan, MD, Walter Reed National Military Medical Center
- 9:55 am-10:00 am 149 - Evaluation of Novel Antimicrobial Coating on Kirschner Wires in Rats
Cant Ryan Siu, MD, Brooke Army Medical Center
- 10:00 am-10:05 am 163 - Fracture Healing Modelling and Simulation for Surgical Decision Making
George Morgan, Meng, Imperial College London
- 10:05 am-10:10 am 221 - Femoral Neck Prophylaxis With Lateral Femoral Plating: A Biomechanical Study
Jacob D. Schultz, MD, Vanderbilt University Medical Center
- 10:10 am-10:15 am Discussion

Symposium 2 – Foot & Ankle Trauma

- 10:20 am-10:40 am What I Wish My Partners Paid Attention To
Bethany Gallagher, MD, Vanderbilt University Medical Center
- 10:40 am-11:00 am Refreshment Break

Symposium 3 – Research

- 11:00 am-11:25 am *Joseph C. Wenke, PhD, University of Texas Medical Branch*
Lt Col Andrew J. Sheean, MD, San Antonio Military Medical Center

Panel Discussion 1 – Total Joint Arthroplasty in the DOD: How I Make It Work

- 11:30 am-11:40 am *Maj Stuart J. Davidson, MD, US Air Force Academy*
- 11:40 am-11:50 am *LCDR Ashton H. Goldman, MD, Naval Medical Center Portsmouth*

11:50 am-12:00 pm *Lt Col Robert J. McGill, MD, Alexander T. Augusta Military Medical Center*

12:00 pm -12:05 pm Discussion

12:10 pm -1:10 pm **Focused Lunch Presentations**

**CME Credit not available*

Symposium 4 – The Great Debate: Trauma

1:10 pm-1:40 pm Point Counter Point

Heather A. Vallier, MD, Case Western Reserve University

Surg Cdr Jowan G. Penn-Barwell, MB ChB, PhD, FRCS, Oxford Trauma Service

General Session 3 – Trauma

1:45 pm -1:50 pm 2 - Mortality Outcomes in Treating Intertrochanteric Hip Fractures using Intramedullary Nails and Dynamic Hip Screw: A Retrospective Study
Capt Sohail Rehman, MBBS, Khyber Teaching Hospital Pakistan

1:50 pm -1:55 pm 35 - Operation Inherent Resolve Epidemiological Study of Surgical Cases Role III
CPT Gregory Rummel, MD, Womack Army Medical Center - Cape Fear Valley Hospital

1:55 pm -2:00 pm 45 - Majority of Deep Infections After Open and Closed Fracture Are Polymicrobial: PREP-IT
CPT Joshua A. Hansen, MD, William Beaumont Army Medical Center

2:00 pm -2:05 pm 105 - Perioperative Dexamethasone: Effects on Length of Stay, Perioperative Outcomes, and Safety in Isolated Lower Extremity Long Bone Fracture Fixation
Tanios Dagher, BSE, University of Chicago

2:05 pm -2:10 pm 111 - Adverse Mental Health Outcomes after Severe Open Tibia Fractures: A Secondary Analysis of the FIXIT Study
LT Natasha M. Simske, BS, University of Wisconsin School of Medicine and Public Health

2:10 pm -2:15 pm 123 - Impact of Time to Revascularization on Patients with Ischemic Lower Extremity Open Fractures
CPT Umar A. Khan, MD, Walter Reed National Military Medical Center

- 2:15 pm -2:20 pm 170 - Tourniquet Syndrome- The Mechnikov Experience
Mykyta Tomilin, MD, Henry Ford Hospital
- 2:20 pm -2:25 pm 139 - External Fixator Pin Placement: Safe Without Fluoroscopy
Lauren Luther, MD, Vanderbilt University Medical Center
- 2:25 pm -2:30 pm Discussion

Panel Discussion 2 – Trauma: How I’m Fixing It in 2024

- 2:30 pm -3:30 pm Panel: *Joseph R. Hsu, MD, Atrium Health Musculoskeletal Institute*
Hassan R. Mir, MD, MBA, Florida Orthopaedic Institute
Phillip Mitchell, MD, Vanderbilt University Medical Center
- 3:30 pm-3:50 pm *Refreshment Break*

Symposium 5 – Musculoskeletal Infection

- 3:50 pm-4:05 pm Evidence Based Practices: What Works
Joseph C. Wenke, PhD, University of Texas Medical Branch
- 4:05 pm-4:20 pm Exploring Future Paradigms in MSK Infection
William T. Obrebsky, MD, MPH, MMHC, Vanderbilt University Medical Center
- 4:20 pm -4:25 pm Discussion

Symposium 6 – General Surgery Trauma

- 4:30 pm-4:45 pm Title TBD
Bradley M. Dennis, MD, Vanderbilt University Medical Center
- 4:45 pm-5:00 pm Title TBD
Matthew Eckert, MD, University of North Carolina

Rapid Fire Session 1A - Shoulder

- 5:05 pm-5:09 pm 27 - Metal Punch vs. Drill for Rotator Cuff Anchor Socket; Preclinical and Clinical Comparisons
MAJ Mathew Resnick, DO, University of Missouri Orthopedic Surgery

5:09 pm-5:13 pm	47 - Suture Debris Contributes Significantly to Tissue Response in Shoulder Arthroplasty <i>MAJ John P. Scanaliato, MD, William Beaumont Army Medical Center</i>
5:13 pm-5:17 pm	53 - Whole Genome Sequencing of Patients with Severe Glenoid Dysplasia Identifies HOXA9 as a Candidate Genetic Variant <i>CPT Craig Johnson, DO, Madigan Army Medical Center Orthopaedics</i>
5:17 pm-5:21 pm	77 - Type V Acromioclavicular Joint Dislocation Reduction Loss After Acute Fixation <i>LT Scott Feeley, MD, Walter Reed National Military Medical Center</i>
5:21 pm-5:25 pm	112 - Durable Outcomes after Arthroscopic Posterior Labral Repair at Minimum Ten Years Follow-Up <i>LT Natasha M. Simske, BS, University of Wisconsin School of Medicine and Public Health</i>
5:25 pm-5:29 pm	130 - Clinical Outcomes After Arthroscopic 270 Degrees Labral Repair in Active-Duty Military Patients: At Minimum Ten Year Follow-up <i>CPT John K. McNamara, MD, William Beaumont Army Medical Center / Texas Tech</i>
5:29 pm-5:35 pm	Discussion
5:35 pm-5:39 pm	138 - Glenoid Bone Loss in Unidirectional vs. Combined Shoulder Instability <i>CPT Annette Yoon, MD, William Beaumont Army Medical Center</i>
5:39 pm-5:43 pm	147 - Return to Sport After Inlay Total Shoulder Arthroplasty in Weightlifters <i>2LT Zachary A. Blashinsky, BS, Florida International University Herbert Wertheim College of Medicine</i>
5:43 pm-5:47 pm	153 - Anatomic or Reverse Total Shoulder Arthroplasty? How Fellowship Training Affects Selection of Arthroplasty Type <i>CPT Cole Johnson, MD, William Beaumont Army Medical Center</i>
5:47 pm-5:51 pm	168 - Beach-Chair Position Increases Cerebral Deoxygenation for Upper Extremity Fracture Surgery <i>LT Dylan Fischer, BA, MD, University of Nebraska Medical Center</i>
5:51 pm-5:55 pm	201 - The Effect of Surgeon Volume on Outcomes Following Total Shoulder Arthroplasty: A Nationwide Assessment <i>CPT Cole Patrick, MD, William Beaumont Army Medical Center</i>
5:55 pm-5:59 pm	273 - An Analysis of Reverse Shoulder Arthroplasty in Patients Under 60

ENS Collin P. Todd, BS, Ohio State University College of Medicine

5:59 pm-6:05 pm Discussion

Rapid Fire Session 1B - Total Joint

5:05 pm-5:09 pm 22 - Suction Drain Usage has no Benefit Following Revision Total Hip and Knee Arthroplasty
LT Andrew D. Lachance, MD, Guthrie Clinic

5:09 pm-5:13 pm 23 - Robotic Assisted vs. Manual TKA Allows for Smaller Poly Sizes during Simultaneous ROH
LT Andrew D. Lachance, MD, Guthrie Clinic

5:13 pm-5:17 pm 42 - Funding and Innovation Using Modern Data Networks in Knee Arthroplasty
2LT Xianni Simmons, MS, University of Florida College of Medicine

5:17 pm-5:21 pm 68 - Offset, Leg Lengthening and Patient Reported Outcomes in Hip Arthroplasty
Stephanie Price, MD, MPH, UT Dell Medical School

5:21 pm-5:33 pm Discussion

5:33 pm-5:37 pm 203 - Innovative Approach for Converting a Broken Cephalomedullary Nail to THA
CPT Alexandria Murphy, MD, MS, Madigan Army Medical Center

5:37 pm-5:41 pm 251 - Revision of Total Hip Arthroplasty Following Acetabular Fracture Fixation
Ridge Maxson, BS, Johns Hopkins University School of Medicine

5:41 pm-5:45 pm 137 - Pre-Injection Local Anesthesia for Intraarticular Hip Injections
CPT Alexis B. Sandler, MD, William Beaumont Army Medical Center

5:45 pm-5:49 pm 196 - Is the Use of Cerclage Wires Associated with Increased Complications Following ORIF of Periprosthetic Femur Fractures?
Phillip T. Grisdela, MD, Harvard Combined Orthopaedic Residency Program

5:49 pm-5:53 pm 91 - Neural Network Insights into Operative Efficiency in Shoulder Arthroplasty
CPT Vidushan Nadarajah, MD, University of Virginia

5:53 pm-6:05 pm Discussion

Rapid Fire Session 1C – Hand/Upper Extremity

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| 5:05 pm-5:09 pm | 13 - Early Outcomes in Hand Ligament Repair with Novel Bio-Composite Scaffold
<i>Devin Potter, BS, Wellstar Kennestone Regional Medical Center</i> |
| 5:09 pm-5:13 pm | 14 - Proximal Pole Scaphoid Fracture Nonunion Treated with Ipsilateral Hamate Transfer
<i>LT Reinaldo E. Colon-Morillo, MD, Naval Medical Center San Diego</i> |
| 5:13 pm-5:17 pm | 24 - Outcomes Following Posteromedial Elbow Debridement in Major League Baseball Players
<i>LT Philip Davis, MD, Naval Medical Center Portsmouth</i> |
| 5:17 pm-5:21 pm | 41 - Current Trends in UCL Repair and Reconstruction: A Five-Year Study
<i>LT Matthew A. Zinner, MD, Northwell Northshore University/Long Island Jewish Medical Center</i> |
| 5:21 pm-5:25 pm | 97 - Neural Network Analysis of Operative Efficiency in Carpal Tunnel Release Surgeries
<i>CPT Vidushan Nadarajah, MD, University of Virginia</i> |
| 5:25 pm-5:29 pm | 110 - Effect of Initial Splint Type in Managing Humeral Shaft Fractures
<i>Sahil Sethi, BS, University of Chicago Medical Center</i> |
| 5:29 pm-5:35 pm | Discussion |
| 5:35 pm-5:39 pm | 169 - Review of UK Military Personnel Living with Upper Limb Amputations
<i>Surgeon Lieutenant Commander Royal Navy Liam Michael Kilbane, MBChB, BSc, Royal Navy / Quen Alexandra Hospital</i> |
| 5:39 pm-5:43 pm | 205 - Extensor Mechanism Damage with Proximal Phalanx Antegrade Screw Insertion
<i>CAPT Nadiya Yerich, MD, Brooke Army Medical Center</i> |
| 5:43 pm-5:47 pm | 157 - Capitate Shortening Osteotomy for Kienböck's Disease: A Systematic Review
<i>LT Natasha M. Simske, BS, University of Wisconsin School of Medicine and Public Health</i> |
| 5:47 pm-5:51 pm | 226 - Compartment Syndrome after Gunshot Injuries to the Upper Extremity |

Julia B. Nascimben, BS, University of Illinois College of Medicine at Chicago

5:51 pm-5:55 pm 275 - Corroboration of MRI and Intra-operative Finding of Triangular Fibrocartilage Injuries
Maggie M. Scribner, MD, Tripler Army Medical Center

5:55 pm-5:59 pm 220 - Clavicle Fracture Fixation: Does the Number of Plates Matter?
CPT Anthony N. Gavalas, MD, William Beaumont Army Medical Center

5:59 pm-6:05 pm Discussion

Rapid Fire Session 1D – Wartime Trauma

5:05 pm-5:09 pm 18 - Lack of Association Between C-Spine Injuries and Prehospital Immobilization: From Tradition to Evidence
Yael V. Ezra, MD, Israel Defense Force's Medical Corps

5:09 pm-5:13 pm 30 - Intraoperative Radiographic Rotational Profile of the Tibia
Sean P. Wrenn, MD, Vanderbilt University Medical Center

5:13 pm-5:17 pm 43 - Balanced Cable Bone Transport of the Tibia Using Automated Motorized Struts
James A. Blair, MD, FACS, Emory University at Grady Memorial Hospital

5:17 pm-5:21 pm 229 - Is Drop Testing of Suspension Seats Relevant for Military Boats?
Johan Ullman, Sahlgrenska Academy, Gothenburg University

5:21 pm-5:25 pm 189 - Cannulated Screws vs. Femoral Neck System in Geriatric Nondisplaced Femoral Neck Fractures
Capt Briana M. Pompa-Hogan, MD, San Antonio Military Medical Center

5:25 pm-5:29 pm 143 - Compartment Syndrome Risk in Tibial Fractures: Ballistic vs Blunt Mechanisms
Matthew Dulas, MD, University of Chicago Medicine

5:29 pm-5:35 pm Discussion

5:35 pm-5:39 pm 177 - Tourniquets on the Modern Battlefield- Lessons Forgotten
CPT Erickson Andrews, MD, Henry Ford Hospital

5:39 pm-5:43 pm 179 - Wartime Amputations- Past and Present
Mykyta Tomilin, MD, Henry Ford Hospital

5:43 pm-5:47 pm	238 - Articular Violation of the Joint During Ballistic IMN Treatment for Femoral and Tibial Fractures is not Associated with Increased Risk of Infection <i>Fatima Bouftas, BS, University of Chicago, Pritzker School of Medicine</i>
5:47 pm-5:51 pm	255 - Retrospective Analysis of Limb Amputations Among Soldiers in Two Similar Wars <i>Col (Ret.) Shachar D. Shapira, MD, MHA, MA, MBA, Chaim Sheba Medical Center</i>
5:51 pm-5:55 pm	243 - Hand-Drilled vs Power-Drilled External Fixator Pin Pullout Strength <i>CPT Mason Adams, DO, San Antonio Uniformed Services Health Education Consortium</i>
5:55 pm-5:59 pm	269 - Recent Orthopaedic Trauma Volume in the U.S. Military Health System <i>LT Conor F. McCarthy, MD, Walter Reed National Military Medical Center</i>
5:59 pm-6:05 pm	Discussion

Wednesday, December 11

6:30 am-7:00 am	Scientific E-Poster Session (Presenters will be available to answer questions.)
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Concurrent Symposium 7A – Total Joint Arthroplasty: Pearls and Pitfalls of Total Joint Arthroplasty

Moderator: LCDR Ashton H. Goldman, MD, *Naval Medical Center Portsmouth*

7:00 am-7:20 am	Title TBD <i>David G. Lewallen, MD, Mayo Clinic</i>
7:20 am-7:40 am	Title TBD <i>Ryan Martin, MD, Vanderbilt University Medical Center</i>
7:40 am-7:50 am	Discussion

Concurrent Symposium 7B – Optimizing Return to Duty: Perioperative Considerations

7:00 am-7:15 am	Advances in Rehab: Where We are, Where We are Going? <i>Johnny Owens BS, MPT, Owens Recovery Science</i>
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7:15 am-7:30 am	Optimizing Perioperative Nutrition <i>Diana Nguyen MS, RDN, LDN, CSSD, CSCS, ISAK-1, Human Performance Program, Ft. Liberty</i>
7:30 am-7:45 am	Get Your Mind Right: Performance Psychology and Recovery <i>Kristin R. Archer, PhD, DPT, Vanderbilt University Medical Center</i>
7:45 am-7:50 am	Discussion

Concurrent Session 3A – Total Joint Arthroplasty

7:55 am-8:00 am	51 - TEA Use and AV Fistula Thrombosis in Total Joint Arthroplasty <i>Stephanie Price, MD, MPH, UT Dell Medical School</i>
8:00 am-8:05 am	75 - Mitigating Post-Operative ED Visits: Mental Health Interventions in Joint Arthroplasty <i>Stephanie Price, MD, MPH, UT Dell Medical School</i>
8:05 am-8:10 am	88 - Pressfit Patella In Total Knee Arthroplasty- Systematic Review and Meta-Analysis <i>CPT Kimberton Nguyen, MD, Womack Army Medical Center</i>
8:10 am-8:15 am	98 - A Comparative Analysis of Medicaid and Medicare Reimbursement Variations for Total Knee and Total Hip Arthroplasty Procedures <i>CPT Matthew E. Wells, DO, William Beaumont Army Medical Center</i>
8:15 am-8:20 am	Discussion
8:20 am-8:25 am	167 - Comparing Surgical Subspecialty Outcomes in Hemiarthroplasty for Femoral Neck Fractures <i>2LT Aidan A. Welsh, BS, Tufts School of Medicine</i>
8:25 am-8:30 am	184 - Risk Factors for Medical Separation after Total Hip Arthroplasty <i>LT Skyler D. Walker, MD, Naval Medical Center Portsmouth</i>
8:30 am-8:35 am	254 - Return to Duty and Outcomes After UKA and PTO <i>LT Conor F. McCarthy, MD, Walter Reed National Military Medical Center</i>
8:35 am-8:40 am	284 - Are Patient-Reported Outcomes of Primary Arthroplasty in Active Duty vs. Non-Active Duty Patients Similar? A MOTION Registry Study <i>LCDR Brian T. Barlow, MD, Naval Medical Center San Diego</i>
8:40 am-8:45 am	Discussion

Concurrent Session 3B – Perioperative Optimization

- 7:55 am-8:00 am 4 - Immediate Weight-Bearing after Modified-Brostrom Reconstruction:
An Accelerated Rehab Protocol
LTC Kevin D. Martin, DO, Ohio State University College of Medicine
- 8:00 am-8:05 am 12 - Empowering Recovery: Enhancing Patient Preparedness and
Education Post-Anterior Cruciate Ligament Injury
LTC David J. Tennent, MD, San Antonio Military Medical Center
- 8:05 am-8:10 am 40 - Assessment of Postoperative Fitness After Hip Arthroscopy in a
Military Population
LCDR Jasmine A. Scott, MD, JD, Naval Medical Center San Diego
- 8:10 am-8:15 am 50 - Namaste: A Prospective Study on Yoga for Anterior Knee Pain
Stephanie Price, MD, MPH, UT Dell Medical School
- 8:15 am-8:20 am Discussion
- 8:20 am-8:25 am 107 - Difficulties in Open Fracture Management in Mass Casualty
Scenarios
*Major Abigail Bainbridge, MBChB, BSC (Hons), Defence Medical
Deanary*
- 8:25 am-8:30 am 171 - Effect of Education on Administration of Upper Extremity Outcome
Measures
CPT Alexis B. Sandler, MD, William Beaumont Army Medical Center
- 8:30 am-8:35 am 249 - Compressive Cryotherapy Versus Ice After Hip Arthroscopy:
Randomized Controlled Trial
LT Scott Feeley, MD, Walter Reed National Military Medical Center
- 8:35 am-8:40 am 278 - Weight-Bearing vs. Non-Weight-Bearing Functional Rehabilitation
Protocols for Non-Operative Achilles Tendon Ruptures
CPT Hannah N. Imlay, MD, Tripler Army Medical Center
- 8:40 am-8:45 am Discussion
- 8:45 am – 9:05 am *Refreshment Break*

Concurrent Session 4A: Panel Discussion: Post Resection Reconstruction/Hip Knee/Trauma Combo Joint/Oncology

9:05 am-9:50 am Panel: *Maj Fortune Egbulefu, MD, Nellis Air Force Base*
Joshua M. Lawrenz, MD, MSCI, Vanderbilt University Medical Center
H. Thomas Temple, MD, University of Miami Miller School of Medicine

Concurrent Session 4B – Rapid Fire: Lower Extremity Trauma

9:05 am-9:09 am 162 - Minimally Invasive Flexible Fixation of Lisfranc Injuries
LT Vivek M. Abraham, MD, Naval Medical Center Portsmouth

9:09 am-9:13 am 207 - Development of 3D-Printed Orthopaedic Orthoses for the Austere, Deployment Environment: A Field Exercise
CPT Brooke Kowalski, MD, Madigan Army Medical Center

9:13 am-9:17 am 224 - Athletes Demonstrate Superior Outcomes after Kidner Procedure for Accessory Navicular
CPT David Fogg, MD, WBAMC Orthopaedic Surgery Residency Program

9:17 am-9:21 am 102 - Intramedullary Tibial Nailing on Traction vs Free Hand: A Retrospective Review
Flt Lt David C. Cain, MB, ChB, MRCS, Royal Centre for Defence Medicine

9:21 am-9:25 am Discussion

9:25 am-9:29 am 180 - Somatosensory Reprogramming Linked to Chronic Pain Post-Lower Extremity Fracture Surgery
William M. Charlton, BS, University of Kentucky

9:29 am-9:33 am 215 - Central Collinear Start Point Decreases Femoral Neck Ultimate Failure Load
LT Richard C. Lee, MD, Walter Reed National Military Medical Center

9:33 am-9:37 am 145 - Tibial Nail Size and Canal Ratio: Effects on Post-Operative Outcomes
Daniel E. Marks, MD, MS, University of Chicago Medicine

9:37 am-9:41 am 103 - Plate Nail Constructs for Complex Proximal Tibia Fractures
Daniel E. Marks, MD, MS, University of Chicago Medical Center

9:41 am-9:45 am 142 - Interlocking Screw Configuration's Impact on Internally-Fixed Tibial Shaft Fractures
Solomon T. Egbe, BA, University of Chicago Medicine

9:45 am-9:50 am Discussion

Concurrent Session 4C – Rapid Fire: Practice Management

9:05 am-9:09 am	11 - Analyzing Obesity and Age in Predicting Lower Extremity Compartment Syndrome <i>Jonathan J. Light, MD, Albany Medical College Orthopedic Surgery Residency</i>
9:09 am-9:13 am	34 - A Comprehensive Analysis of Trends in NFL Medical Malpractice Lawsuits <i>2LT Kaitlynn Littleford, BS, University of Tennessee Health Science Center</i>
9:13 am-9:17 am	36 - Life- and Limb-Threatening Injuries: A Framework for Orthopaedic Surgeons <i>CPT Joshua A. Hansen, MD, William Beaumont Army Medical Center</i>
9:17 am-9:21 am	125 - Peripheral Nerve Blocks Decrease Opioid Consumption in Acute Tibial Shaft Fractures <i>CPT Umar A. Khan, MD, Walter Reed National Military Medical Center</i>
9:21 am-9:25 am	Discussion
9:25 am-9:29 am	144 - Associations of Trauma Fellowship Training with Tibial Shaft Fracture Outcomes <i>Solomon T. Egbe, BA, University of Chicago Medicine</i>
9:29 am-9:33 am	178 - Noise Levels in the Orthopaedic Operating Room <i>LT Kyle Wieschhaus, MD, Naval Medical Center Portsmouth</i>
9:33 am-9:37 am	174 - Carboxyhemoglobin Level Feedback Enhances Readiness to Quit Smoking in Orthopaedic Trauma Patients <i>William M. Charlton, BS, University of Kentucky</i>
9:37 am-9:41 am	108 - Orthopaedic Surgery Bootcamp for Sub-Interns <i>LTC Daniel J. Song, MD, Brooke Army Medical Center</i>
9:41 am-9:45 am	173 - Novel Method of Delivering Consistent Patient Education in Pediatric Orthopaedics <i>LT Vivek M. Abraham, MD, Naval Medical Center Portsmouth</i>
9:45 am-9:50 am	Discussion

Concurrent Session 4D – Rapid Fire: Shoulder

- 9:05 am-9:09 am 15 - Revision Shoulder Arthroscopy and Arthroplasty Culture Positivity: A Retrospective Cohort Study
James S. MacLeod, BS, Medical College of Wisconsin
- 9:09 am-9:13 am 21 - Five-Year Outcomes of Three Glenoid Components in TSA
LT Andrew D. Lachance, MD, Guthrie Clinic
- 9:13 am-9:17 am 187 - Revision Posterior Labral Repair in Active-Duty Military Patients is Associated with Less Favorable Outcomes When Compared to Primary Procedures at Minimum Five-Years Follow-Up
CPT Amy Thompson, MD, William Beaumont Army Medical Center
- 9:17 am-9:21 am 231 - Risk Factors Associated with 30-Day Inpatient Mortality After Shoulder Arthroplasty
Eve R. Glenn, BSc, Johns Hopkins University School of Medicine
- 9:21 am-9:25 am Discussion
- 9:25 am-9:29 am 136 - Outcomes after Glenoid Microfracture with and without Rotator Cuff Repair
CPT Alexis B. Sandler, MD, William Beaumont Army Medical
- 9:29 am-9:33 am 234 - Characteristics of Younger Than 50-Year-Old Revision Rotator Cuff Repair Cohort
2LT Chase R. Schulte, BS, Uniformed Services University of Health Sciences
- 9:33 am-9:37 am 235 - Arthroscopic Subacromial Balloon Spacer for Massive Rotator Cuff Tears with Minimum 5-Year Follow-Up
LCDR Sarah Nelson, MD, MS, Walter Reed National Military Medical Center
- 9:37 am-9:41 am 252 - Systematic Review of Distal Humerus Fractures - Comparison of Articular Exposure
CPT Annette Yoon, MD, William Beaumont Army Medical Center
- 9:41 am-9:45 am 276 - The Impact of Age on Revision Reverse Shoulder Arthroplasty
ENS Collin P. Todd, BS, Ohio State University College of Medicine
- 9:45 am-9:50 am Discussion
- 9:50 am – 10:10 am Refreshment Break

Special Session 2 – Diversity in Orthopaedics

- 10:10 am-10:30 am Creating a Culture of Inclusivity
William N. Levine, MD, Columbia University Medical Center
- 10:30 am-11:00 am Panel Discussion
Panel: *Maj Fortune Egbulefu, MD, Nellis Air Force Base*
William N. Levine, MD, Columbia University Medical Center
CDR Jennifer L. Smith, MD, Naval Medical Center San Diego

Symposium 8 – Upper Extremity/Shoulder/Elbow

- 11:05 am-11:25 am Partial Rotator Cuff Tear
William N. Levine, MD, Columbia University Medical Center
- 11:25 am-11:45 am Management of the Young Degenerative Shoulder
Jed Kuhn, MD, MS, Vanderbilt University Medical Center
- 11:45 am-11:50 am Discussion
- 11:55 am-12:55 pm **Focused Lunch Presentations**
**CME Credit not available*

Symposium 9 – Hand/Trauma - Jamie Dianne Bulken-Hoover Memorial

- 12:55 pm-1:20 pm Title TBD
Joseph R. Hsu, MD, Atrium Health Musculoskeletal Institute
- 1:20 pm -1:45 pm Forearm Instability
Jorge Orbay, MD, The Miami Hand & Upper Extremity Institute
- 1:45 pm -1:55 pm Discussion

Concurrent Session 5A – Hand/Elbow

- 2:00 pm-2:05 pm 160 - Return to Duty Rates Following Surgical Management of Kienbock's Disease
LT Evan D. Crawford, DO, Naval Medical Center Portsmouth
- 2:05 pm-2:10 pm 161 - Managing Major Peripheral Nerves in Forearm Level Amputations with TMR and RPNI—What's the Best Recipe?

Capt Samuel L. Posey, MD, Atrium Health Musculoskeletal Institute

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|-----------------|---|
| 2:10 pm-2:15 pm | 164 - CTR Using Ultrasound Guidance: Two-Year RCT Outcomes within MHS
<i>Marin Smith, DPT, The Geneva Foundation</i> |
| 2:15 pm-2:20 pm | 193 - Functional Outcomes of Operatively Managed Carpometacarpal Joint Injuries
<i>LT Thomas J. Berault, MD, Naval Medical Center Portsmouth</i> |
| 2:20 pm-2:25 pm | 218 - A Multi-Center Comparison of Upper-Extremity Gunshot vs. Explosion Injuries in the 2023 Israel-Gaza War
<i>Capt Dan Prat, MD, Chaim Sheba Medical Center Israel</i> |
| 2:25 pm-2:30 pm | Discussion |
| 2:30 pm-2:35 pm | 228 - Upper Extremity Gunshot Injuries: Rate and Risk Factors for Nonunion
<i>Charles Liu, BS, University of Illinois College of Medicine at Chicago</i> |
| 2:35 pm-2:40 pm | 244 - Safe Zones and Risks in First Metacarpal Antegrade Intramedullary Fixation
<i>CPT Mason Adams, DO, San Antonio Uniformed Services Health Education Consortium</i> |
| 2:40 pm-2:45 pm | 258 - Push-Up Functional Outcomes after Scaphoid Fixation in a Military Population
<i>LT Peter E. Baglien, DO, Naval Medical Center San Diego</i> |
| 2:45 pm-2:50 pm | 259 - Ballistic Distal Radius Fractures: Differences in Management and Outcomes
<i>Kanad Ghosh, MD, Pritzker School of Medicine</i> |
| 2:50 pm-2:55 pm | 279 - Outcomes Following Arthroscopic Marrow Stimulation for the Treatment of Capitellum Osteochondritis Dissecans
<i>CPT Patrick W. Rooney, MD, Madigan Army Medical Center</i> |
| 2:55 pm-3:00 pm | Discussion |

Concurrent Session 5B – Shoulder

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| 2:00 pm-2:05 pm | 135 - Robotic vs. Patient Specific Guides for Glenoid Preparation in Reverse Shoulder Arthroplasty
<i>COL (Ret) Patrick St. Pierre, MD, MC, Desert Orthopedic Center</i> |
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2:05 pm-2:10 pm	52 - Outcomes of Knotted vs. Knotless Anchors After Arthroscopic Labral Repair <i>CPT Rebecca McAllister, MD, Tripler Army Medical Center</i>
2:10 pm-2:15 pm	8 - Arthroscopically-Treated Posterior Instability Patients Experience Fewer Instability Events Yet More Commonly Require Concomitant Anterior Labral Repair When Compared to Anterior Instability Patients <i>Justin J. Ernat, MD, University of Utah Health</i>
2:15 pm-2:20 pm	80 - Distance to Dislocation and Recurrent Shoulder Instability Following Latarjet <i>LT Scott Feeley, MD, Walter Reed National Military Medical Center</i>
2:20 pm-2:25 pm	133 - Factors Influencing Return to Duty Following Rotator Cuff Repair <i>CPT John K. McNamara, MD, William Beaumont Army Medical Center / Texas Tech</i>
2:25 pm-2:30 pm	Discussion
2:30 pm-2:35 pm	48 - Prior Ipsilateral Shoulder Surgery Results in Inferior Outcomes Following rTSA <i>MAJ John P. Scanaliato, MD, William Beaumont Army Medical Center</i>
2:35 pm-2:40 pm	152 - Biceps Tenotomy vs. Tenodesis Outcomes in Active Patients Under 50 <i>Christopher G. Bacak, MD, William Beaumont Army Medical Center</i>
2:40 pm-2:45 pm	185 - Revision Posterior Labral Repair in Active-Duty Military Patients is Associated with Less Favorable Outcomes When Compared to Primary Procedures at Minimum Five-Years Follow-Up <i>CPT Amy Thompson, MD, William Beaumont Army Medical Center</i>
2:45 pm-2:50 pm	253 - There is no Difference Between Arthroscopic Bankart with Remplissage and Open Latarjet in Patients with Subcritical Bone Loss <i>CPT Christian Cruz, MD, Tripler Army Medical Center</i>
2:50 pm-2:55 pm	271 - Evaluating Shoulder Surgery Outcomes in Seizure Patients with Instability <i>ENS Collin P. Todd, BS, Ohio State University College of Medicine</i>
2:55 pm-3:00 pm	Discussion
3:00 pm-3:10 pm	<i>Refreshment Break</i>

Concurrent Session 6A: Panel Discussion: Hand and Elbow

3:15 pm -4:00 pm Panel: *Julie A. Katarincic, MD, Brown University Orthopedics*
Joseph R. Hsu, MD, Atrium Health Musculoskeletal Institute

Concurrent Session 6B– International Collaboration

Moderator: COL (Ret) James R Ficke, MD, Johns Hopkins Medicine

3:15 pm -4:00 pm TBD

Concurrent Panel Discussion 3A – Transition to Civilian Practice

4:05 pm-5:15 pm Panel: *COL (Ret) Matthew A. Posner, MD, Wellspan Health*
Col (Ret) Chance J. Henderson, MD, Colorado Center of
Orthopaedic Excellence
James A. Blair, MD, FACS, Emory University at Grady Memorial
Hospital

Concurrent Panel Discussion 3B – Transition to Independent Military Practice

4:05 pm-5:15 pm Panel: *Maj Ian S. Tuznik, MD, Travis Air Force Base*
LCDR John Ricards, MD, Naval Medical Center Camp Lejeune

Thursday, December 12

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

Concurrent Symposium 10A – Sports Knee

7:30 am-7:50 am Management of Cartilage Defects in the Young, Active Knee
TBD

7:50 am-8:10 am ACL/Meniscus
Brian R. Waterman, MD, Wake Forest Baptist Health / Wake Forest
University

8:10 am-8:20 am Discussion

Concurrent Symposium 10B – Oncology

7:30 am-7:50 am Title TBD
H. Thomas Temple, MD, University of Miami Miller School of Medicine

7:50 am-8:10 am Title TBD
Joshua M. Lawrenz, MD, MSCI, Vanderbilt University Medical Center

8:10 am-8:20 am Discussion

Concurrent Session 7A – Sports Knee

8:25 am-8:30 am 6 - Tibial Tubercle Osteotomy in Adult Patients does not Change Patellar Height or Patellar Tendon Length
Justin J. Ernat, MD, University of Utah Health

8:30 am-8:35 am 10 - High-Energy and Polytraumatic Multiligament Knee Injuries More Commonly Involve the LCL and PCL vs. Low-Energy or Isolated Injuries
Justin J. Ernat, MD, University of Utah Health

8:35 am-8:40 am 17 - Suture and Anchor Constructs Provide Enhanced Tibial Spine Fracture Fixation
ENS Thomas Michael Johnstone, BS, Stanford University School of Medicine

8:40 am-8:45 am 25 - Surgical Outcomes of Proximal versus Distal Patella Tendon Ruptures
LT Karolina A. Serhan, MD, Naval Medical Center Portsmouth

8:45 am-8:50 am Discussion

8:50 am-8:55 am 115 - Patella Alta is a Prognostic Indicator following Tibial Tubercle Osteotomy
CPT Patrick C. Mayolo, MD, Tripler Army Medical Center

8:55 am-9:00 am 214 - Smaller Width Quadriceps Tendon Grafts Maintain Advantageous Biomechanical Properties for ACL Reconstruction
LT Richard C. Lee, MD, Walter Reed National Military Medical Center

9:00 am-9:05 am 266 - Femoroacetabular Impingement: Return to Duty Rates and Postoperative Outcomes
CPT Alexys Bermudez, MD, Tripler Army Medical Center

9:05 am-9:10 am 268 - Transosseous Tunnels vs. Suture Anchors for Quadriceps Tendon Repair
LT Conor F. McCarthy, MD, Walter Reed National Military Medical Center

9:10 am-9:15 am Discussion

Concurrent Session 7B – Oncology

- 8:25 am-8:30 am 20 - Pediatric Bone Sarcoma Biopsy Tract Excision: Is it Safe to Resect Separately?
MAJ Michael D. Eckhoff, MD, William Beaumont Army Medical Center
- 8:30 am-8:35 am 31 - Sociodemographic Factors' Effects on Transfemoral Osseointegration Patient Reported Outcomes
Kara Churovich, BS, MPH, Henry M. Jackson Foundation for the Advancement of Military Medicine
- 8:35 am-8:40 am 92 - Incidence Rates of Soft Tissue Sarcoma among U.S. Military Servicemen: Comparison with the Rates in the General U.S. Population
LCDR Ashley B. Anderson, MD, Walter Reed National Military Medical Center
- 8:40 am-8:45 am 132 - Utilization of Cement Injection in Cadaveric Specimens for Simulation of Surgical Wide Resection in Orthopaedic Oncology
LT Cord J. Peters, MD, Naval Medical Center Portsmouth
- 8:45 am-8:50 am Discussion
- 8:50 am-8:55 am 158 - Cryopreservation and Cultivation of Giant Cell Tumor of Bone
CPT Jonah M. Liwag, MD, Tripler Army Medical Center
- 8:55 am-9:00 am 186 - Investigating Malignancies Associated with Orthopedic Implants: A Scoping Review
ENS Thomas Michael Johnstone, BS, Stanford University School of Medicine
- 9:00 am-9:05 am 223 - Thighplasty for Transfemoral Amputations With and Without Osseointegration: Complication Rates
LT Hannah Gibbs, MD, Walter Reed National Military Medical Center
- 9:05 am-9:10 am 265 - PET-CT Analysis of Peri-Implant Infections in Patients with Explanted Osseointegration Devices
CPT Sarah Rabin, MD, MS, Walter Reed National Military Medical Center
- 9:10 am-9:15 am Discussion
- 9:15 am-9:25 am *Refreshment Break*

Concurrent Session 8A – Panel Discussion: Management of Complex Knee

9:30 am-10:20 am Panel: *Major Aaron E. Barrow, MD, Eglin Air Force Base*
Brian R. Waterman, MD, Wake Forest Baptist Health / Wake Forest University

Concurrent Session 8B – Spine

9:30 am-9:35 am 58 - Surgical Correction of the Lumbosacral Hemicurve in Adult Scoliosis
Michael Czulinski, DO, University of Minnesota

9:35 am-9:40 am 60 - Reliability of Planned vs. the Actual Iliosacral Screw Trajectory using
Intra-operative 3D CT and Image Guidance
Vasil Kukushliev, MD, University of Minnesota

9:40 am-9:45 am 62 - Functional Outcomes After Lumbar Microdiscectomy in the U.S.
Military
LT Harrison Diaz, MD, Naval Medical Center San Diego

9:45 am-9:50 am 93 - Intraoperative Neuromonitoring Has Poor Correlation with Postop
Neurological Deficits in Non-Cord Level Adult Deformity Surgery
COL (Ret) David W. Polly, MD, University of Minnesota

9:50 am-9:55 am Discussion

9:55 am-10:00 am 94 - The Dreaded False Negatives - When Intraoperative Neuromonitoring
(IONM) Fails to Detect Neural Deficits Associated with Complex, Non-
Cord-Level Spinal Deformity Corrections
COL (Ret) David W. Polly, MD, University of Minnesota

10:00 am-10:05 am 99 - Effect of Surgical Approach on Outcomes and Complications for
Thoracolumbar Burst Fractures: A Systematic Review
2LT Alexandros Cherry, BS, Uniformed Services University of the Health Sciences

10:05 am-10:10 am 121 - Lumbar Facet Arthroplasty: Four-Year Outcomes for Treatment of
Spondylolisthesis
Kristin A. Keith, DO, Baylor Scott and White Health

10:10 am-10:15 am 211 - Craniocervical Dissociation Injuries: Predicting Survival and
Neurologic Outcomes.
Ryan Price, MD, University of New Mexico

10:15 am-10:20 am Discussion

Concurrent Session 8C– Rapid Fire: Pediatrics

- 9:30 am-9:34 am 3 - Prevalence of Acute Compartment Syndrome in Pediatric Tibial Tubercle Fractures
2d Lt Natalia Pluta, BS, MS, University of the Incarnate Word School of Osteopathic Medicine
- 9:34 am-9:38 am 16 - Outcomes in Pediatric Proximal Both Bone Fractures: A Systematic Review
2LT Nathan R. McKenzie, BSc, University of Oklahoma College of Medicine
- 9:38 am-9:42 am 19 - Increased Prevalence of Fibromyalgia in Adolescents with Spinal Deformities
CPT Ilan Y. Mitchnik, MD, Israel Defense Force's Medical Corps
- 9:42 am-9:46 am 28 - Suture Anchor Fixation of the Pediatric Posterior Meniscotibial Ligament Complex
ENS Thomas Michael Johnstone, BS, Stanford University School of Medicine
- 9:46 am-9:50 am 116 - Comparative Analysis of Operative versus Non-Operative Management of Acute Pediatric Monteggia Fractures
CPT Vidushan Nadarajah, MD, University of Virginia
- 9:50 am-9:55 am Discussion
- 9:55 am-9:59 am 126 - Harnessing Neural Networks to Predict Postoperative Complications in Pediatric Arthroplasty
Roxana Martinez, MD, University of Virginia
- 9:59 am-10:03 am 183 - Impact of Adolescent Idiopathic Scoliosis on Curve Progression in Pregnancy
LT Karolina A. Serhan, MD, Naval Medical Center Portsmouth
- 10:03 am-10:07 am 194 - Clinical and Radiographic Outcomes of Magnetic Limb Lengthening: Efficacy of Intramedullary Limb Lengthening Nail
Mohammed A. Pourghaed, MD, William Beaumont Army Medical Center
- 10:07 am-10:11 am 208 - Atypical Presentation of Patella Osteonecrosis after Knee Arthroscopy: A Case Report and review of the Literature
CPT Brandon H. Chung, DO, William Beaumont Army Medical Center

10:11 am-10:15 am 216 - Partial Avulsion Patterns in the Pediatric Humeral Medial Epicondyle
LT Richard C. Lee, MD, Walter Reed National Military Medical Center

10:15 am-10:20 am Discussion

Concurrent Session 8D – Rapid Fire: Trauma

9:30 am-9:34 am 73 - Revision-Free Survival Following Femoral Neck Fracture Fixation in Young Adults
LT Nicholas M. Panarello, MD, Walter Reed National Military Medical Center

9:34 am-9:38 am 86 - Heavy Metals and Gunshot Orthopaedic Injuries: Fact or Folklore?
Alana Lay-Phillips, BS, University of Chicago
**Presented by Jason Strelzow, MD*

9:38 am-9:42 am 119 - Dual Plate Fixation vs. Non-Operative Long-Term Patient Reported Outcomes
CPT David Fogg, MD, WBAMC Orthopaedic Surgery Residency Program

9:42 am-9:46 am 124 - Does the Timing, Type, and Method of Flap Coverage after Open Tibia Fracture Fixation Influence the Rate of Deep Infection?
CPT Umar A. Khan, MD, Walter Reed National Military Medical Center

9:46 am-9:50 am 175 - The Use of Negative Pressure Wound Therapy (NPWT) in the Treatment of Military Blast Wounds/High-Velocity Gunshot Wounds
Mykyta Tomilin, MD, Henry Ford Hospital

9:50 am-9:54 am 159 - Anterior Internal of Unstable Pelvis Fractures Compared with External Fixation was Associated with Home Discharge, Shorter Length of Stay, and Lower Hospital Charges
Joseph T. Patterson, MD, Keck School of Medicine of University of Southern

9:54 am-9:57 am Discussion

9:57 am-10:01 am 285 - Outcomes of Distal Tibial Fracture Intramedullary Nailing with vs without Adjuvant Plating: A Retrospective Analysis
CPT Dexter Allen MD, University of Texas Medical Branch

10:01 am-10:05 am 217 - Comparative Analysis of Lower Extremity Injuries in Gunshot vs. Explosive Trauma during the Swords of Iron War
Capt Dan Prat, MD, Chaim Sheba Medical Center Israel

- 10:05 am-10:09 am 245 - Comparing Extra-Articular and Articular Lower Extremity Fractures to 12-Month Performance Outcomes
William M. Charlton, BS, University of Kentucky
- 10:09 am-10:13 am 261 - High Risk Hip Fracture Patients: Does Medical Co-management Improve Outcomes?
Capt Stephen R. Barchick, MD, University of Pennsylvania
- 10:13 am-10:17 am 264 - Intraoperative Lactate: Predicting Post-Surgical Complications in Traumatic Orthopedic Cases
Sai K. Reddy, BS, University of Chicago Pritzker School of Medicine
- 10:17 am-10:20 am Discussion

Concurrent Symposium 11A – Sports Shoulder

- 10:25 am-10:45 am Treatment of Biceps Labral Complex Disorders
Robin West, MD, Inova Medical Group
- 10:45 am-11:05 am Posterior Labral Tears
Robert A. Arciero, MD, UCONN Health
- 11:05 am-11:15 am Discussion

Concurrent Symposium 11B – Spine

- 10:25 am-10:45 am Title TBD
John France, MD, West Virginia University
- 10:45 am-11:05 am Title TBD
Byron F. Stephens, MD, Vanderbilt University Medical Center
- 11:05 am-11:15 am Discussion
- 11:20 am-11:35 am **Business Meeting**
**CME Credit not available*

Panel Discussion 4 – Complex Shoulder

- 11:40 am-12:30 pm Panel Discussion
Panel: *Robert A. Arciero, MD, UCONN Health*
Jed Kuhn, MD, MS, Vanderbilt Sports Medicine

William N. Levine, MD, Columbia University Medical Center
Robin West, MD, Inova Medical Group

12:35 pm - 1:35 pm **Focused Lunch Presentations**

**CME Credit not available*

1:40 pm - 2:05 pm **Best of SOMOS – Award Presentations**

Founders' Award

Norman T. Kirk Award

Jamie Dianne Bulken-Hoover Memorial - Best Hand Paper Award

Panel Discussion 5 – Allgood Award Winners

2:05 pm – 2:15 pm Presentation of Allgood Award

2:15 pm – 3:45 pm Panel: *COL (Ret) James R. Ficke, MD, Johns Hopkins Medicine*
COL (Ret) Mark P. Pallis, DO, Geisinger Musculoskeletal Institute

3:45 pm - 5:00 pm **Speed Mentoring Session**

Moderators: CDR (Ret) James R. Bailey, MD, *Ryu Hurvitz Orthopaedic Clinic*
LTC Joseph L. Petfield, MD, *Penn State Bone and Joint Institute*
CAPT Scott Tintle, MD, *Walter Reed National Military Medical Center*

**CME Credit not available*

Friday, December 13

7:00 am-8:00 am **Service Breakouts**

Army

Air Force

Navy

Symposium 12 – Dysplastic Hip Preservation

Moderator: LTC Christina Hylden, MD, *Blanchfield Army Community Hospital*

8:00 am-8:15 am Pediatrics

LTC Estephan J. Garcia, MD, William Beaumont Army Medical Center

8:15 am-8:30 am Sports

Jarod Sullivan, MD, Vanderbilt University Medical Center

8:30 am-8:45 am Adult Reconstructions
LTC Joseph H. Dannenbaum IV, MD, Madigan Army Medical Center

8:45 am-9:00 am Discussion

Concurrent Session 10A – Pediatric/Hip

9:05 am-9:25 am Hip Arthroscopy
J.W. Thomas Byrd, MD, Nashville Hip Institute at TOA

9:25 am-9:30 am 29 - Pediatric Cadaveric Study of the Sagittal Patellar Insertion of the MPFL
ENS Thomas Michael Johnstone, BS, Stanford University School of Medicine

9:30 am-9:35 am 83 - Arthroscopic Hip Surgery in a Military Population: Patient Reported Outcomes Reliably Improve Over the First Six Months
LCDR Brian T. Barlow, MD, Naval Medical Center San Diego

9:35 am-9:40 am 197 - PAO Allows 75% Return to Duty Rate at Mean Two-Year Follow-Up
LCDR Vanna Rocchi, DO, Naval Medical Center Portsmouth

9:40 am-9:45 am 246 - Two-Year PROMs Following Mini-Open Gluteus Medius Tendon Repair
CPT James A. Albright, MD, ScM, Brooke Army Medical Center

9:45 am-9:50 am 281 - Investigating Factors That Can Be Associated with a Positive Trendelenburg Test Among Adolescent Hip Dysplasia Patients
CPT Anthony J. Magee, MD, Tripler Army Medical Center

9:50 am-9:55 am Discussion

Concurrent Session 10B – Board Prep Introduction

Moderator: LTC Daniel Kang, MD, Madigan Army Medical Center

9:05 am-9:55 am Title TBD
MAJ Mitch Harris, MD, Blanchfield Army Community Hospital
MAJ Donald R. Fredericks, MD, Walter Reed National Military Medical Center

9:55 am-10:05 am Refreshment Break

Symposium 13 – Pediatrics for the On Call Doc

- 10:05 am-10:35 am Title TBD
Jonathan G. Schoenecker, MD PhD, Vanderbilt University Medical Center
- 10:35 am-10:45 am: Discussion

Rapid Fire Session 2A – Spine

- 10:50 am-10:54 am 95-Saving Spinal Cord Function by Using Intra-Operative Monitoring and Rapid Response During Spinal Deformity Surgery
COL (Ret) David W. Polly, MD, University of Minnesota
- 10:54 am-10:58 am 57 - Pelvic Incidence Changes with Adult Deformity Correction
COL (Ret) David W. Polly, MD, University of Minnesota
- 10:58 am-11:02 am 106 - Management of Spinal injury in Mass Casualty events
Maj Helen S. M. Smith, BMBCh MA PGCert, Defence Medical Deanery
- 11:02 am-11:06 am 128 - Patterns in Treatment Practice of Nondisplaced Type II Odontoid Fractures
LT Sennay Ghenbot, MD, Walter Reed National Military Medical Center
- 11:06 am-11:10 am 113 - Assessing Agreement Among Spine Surgeons in Type II Odontoid Fractures
LT Janse Schermerhorn, MD, Walter Reed National Military Medical Center
- 11:10 am-11:17 am Discussion
- 11:17 am-11:21 am 114 - Post-Surgical Medical Complications Following Short-Term Steroid Tapers after Cervical Spine Surgery
CAPT Janice M. Bonsu, MD, MPH, Emory University Department of Orthopaedic Surgery
- 11:21 am-11:25 am 140 - Spine Surgeon Outperforms Referral Management in Patient Triage, Leading to Higher Surgical Conversion Rates
CPT Anson G. Bautista, MD, Dwight D. Eisenhower Army Medical Center
- 11:25 am-11:29 am 148 - Outcomes following Laminoplasty or Laminectomy and Fusion in Smokers: A Systematic Review
CPT John A. Wahl, MD, MS, Tripler Army Medical Center

- 11:29 am-11:33 am 190 - Surgical Treatment Patterns for Cervical Spine Surgery and Peripheral Neuropathy
CPT Cody D. Schlaff, MD, Walter Reed National Military Medical Center
- 11:33 am-11:37 am 282 - Efficacy of Alvimopan on Postoperative Ileus After Anterior Lumbar Procedures
Capt Miles W. A. Fisher, MD, Brooke Army Medical Center
- 11:37 am-11:45 am Discussion

Rapid Fire Session 2B – Sports

- 10:50 am-10:54 am 7 - Thigh Muscle Volume Remains Persistently Decreased at a Minimum 5-Year Follow-up After Bone Patellar Tendon Bone Autograft Anterior Cruciate Ligament Reconstruction: An MRI 3D Modeling Evaluation
Justin J. Ernat, MD, University of Utah Health
- 10:54 am-10:58 am 222 - MRI-Based Quadriceps Muscle Volume Strongly Correlates with Knee Extension Strength in Anterior Cruciate Ligament Reconstruction
Capt Mikalyn T. DeFoor, MD, San Antonio Military Medical Center
- 10:58 am-11:02 am 9 - Glenoid Labrum Tear Size is not Related to the Number of Preoperative Dislocations nor Time from Injury to Surgery in Patients with Shoulder Instability
Justin J. Ernat, MD, University of Utah Health
- 11:02 am-11:06 am 64 - Biomechanics of Patellar Fixation Techniques in Medial Patellofemoral Ligament Reconstruction
ENS Thomas Michael Johnstone, BS, Stanford University School of Medicine
- 11:06 am-11:10 am 233 - Trends in Surgical Procedures for Shoulder Instability Among Patients with Joint Hypermobility Syndrome
LCDR Sarah Nelson, MD, MS, Walter Reed National Military Medical Center
- 11:10 am-11:17 am Discussion
- 11:17 am-11:21 am 200 - Biomechanical Evaluation of Humeral Torsional Strength Following Biceps Tenodesis
CPT Graham Sullivan, MD, Naval Medical Center Portsmouth
- 11:21 am-11:25 am 166 - Incidence of Major Tendon Ruptures Before and After COVID-19 Lockdown

LT Karolina A. Serhan, MD, Naval Medical Center Portsmouth

11:25 am-11:29 am 188 - Semitendinosus vs. Semitendinosus Plus Gracilis Grafts for ACL Reconstruction
ENS Thomas Michael Johnstone, BS, Stanford University School of Medicine

11:29 am-11:33 am 78 - Graft Resorption Following Latarjet In the Military Health System
LT Scott Feeley, MD, Walter Reed National Military Medical Center

11:33 am-11:37 am 239 - Low-Intensity Continuous Ultrasound with Diclofenac Sodium Enhances Recovery from Sprains and Strains: A Pilot Study
Ralph Ortiz, DO, Walters, Inc.

11:37 am-11:45 am Discussion

Rapid Fire Session 2C – General Trauma

10:50 am-10:54 am 44 - Regenerate Stabilization with a Photodynamic Intramedullary Stabilization System following Bone Transport via Circular External Fixation
James A. Blair, MD, FACS, Emory University at Grady Memorial Hospital

10:54 am-10:58 am 79 - Treatment Strategies and Outcomes Following Femoral Head Fractures
LT Shane A. Kaplan, MD, Walter Reed National Military Medical Center

10:58 am-11:02 am 104 - Can Trauma Radiographs Predict Canal Diameter in Tibial Shaft Fractures?
Daniel E. Marks, MD, MS, University of Chicago Medical Center

11:02 am-11:06 am 141 - Predicting Injury Severity after Border Wall Falls
CPT Alexis B. Sandler, MD, William Beaumont Army Medical Center

11:06 am-11:10 am 182 - Razom Point-of-Care Ultrasound (POCUS) Training for Frontline Trauma Care in Ukraine
Alexandra Domaradsky, Henry Ford Hospital

11:10 am-11:17 am Discussion

11:17 am-11:21 am 192 - Outcomes After Plating of Inter-prosthetic and Inter-implant Femur Fractures
Phillip T. Grisdela, MD, Harvard Combined Orthopaedic Residency Program

- 11:21 am-11:25 am 212 - Preoperative Planning for Anterior Pelvis Percutaneous Intramedullary Fixation: A Novel Technique and Case Series
CAPT Patrick M. Wise, MD, University of California, Davis
- 11:25 am-11:29 am 213 - Outcomes of Nonoperative Management of Clavicle Fractures: A Retrospective Study
Capt Cody H. LaRowe, DO, WellSpan York
- 11:29 am-11:33 am 227 - Epidemiology and Associated injuries of Upper Extremity Ballistic Fractures
G. Jacob Wolf, MD, University of Illinois College of Medicine at Chicago
- 11:33 am-11:37 am 277 - Photodynamic Bone Stabilization Use in Lower Extremity Fractures
CPT Andrew R. Cooper, MD, Tripler Army Medical Center
- 11:37 am-11:45 am Discussion

2024 SOMOS E-Poster Presentations

Hand & Wrist

280 - Non-Operative Management of Fourth and Fifth Carpometacarpal Joint Dislocations
CPT Austin McCadden, MD, Tripler Army Medical Center

256 - Correlation between Carpal Tunnel Syndrome and Sleep Quality
LT David Musher, MD, Naval Medical Center Portsmouth

Shoulder & Elbow

151 - Outcome of Arthroscopic Debridement and Microfracture for Glenohumeral Kissing Lesions
Christopher G. Bacak, MD, William Beaumont Army Medical Center

72 - Small Lateral Coracoid Projection in Shoulder Instability
CPT Andrew R. Cooper, MD, Tripler Army Medical Center

74 - Interobserver and Intraobserver Reliability in Measuring Coracoid Morphology
CPT Andrew R. Cooper, MD, Tripler Army Medical Center

250 - Combinatorial Failure Modes of Suture Anchors in Osteoporotic Bone
Capt Cameron T. Dodd, MD, Wellstar Kennestone

81 - Decreased Failure After Military Shoulder Stabilization Procedures with Suture Tape
LT Scott Feeley, MD, Walter Reed National Military Medical Center

154 - Professional Fee Reimbursement for Shoulder Surgeries Performed at Ambulatory Surgery Centers Fail to Keep Pace with Inflation
CPT Cole Johnson, MD, William Beaumont Army Medical Center

267 - Technique for Addressing the Deltoid in Open Posterior Glenoid Reconstruction
LT Katina Kartalias, MS, MD, Naval Medical Center San Diego

257 - Acromial Morphology Differences in Primary versus Revision Posterior Shoulder Instability
LT Conor F. McCarthy, MD, Walter Reed National Military Medical Center

236 - Shortened Length of Stay and its Impact on Total Shoulder Arthroplasty
LCDR Sarah Nelson, MD, MS, Walter Reed National Military Medical Center

71 - Characteristics of Lateral Clavicle Fractures Treated with Coracoclavicular Ligament Procedures
LT Nicholas M. Panarello, MD, Walter Reed National Military Medical Center

117 - Unsupervised Machine Learning Identifies Clusters in Outcomes After Labral Repair

CPT James Pruneski, MD, Tripler Army Medical Center

270 - Assessing the Impact of Ballistic Elbow Fractures on Heterotopic Ossification
Manish Pathuri, BS, Pritzker School of Medicine

76 - Trends in Osteopathic Authorship in the Orthopedic Literature and Impact on Successful Match into Shoulder and Elbow Surgery Fellowship
ENS Brandon Rust, BS, Nova Southeastern University College of Osteopathic Medicine

67 - Predictors of Operating Room Time in Shoulder Arthroplasty for Glenohumeral Osteoarthritis
MAJ John P. Scanaliato, MD, William Beaumont Army Medical Center

131 - Predictors of 90-Day Postoperative Complications Following Outpatient Reverse Shoulder Arthroplasty
COL (Ret) Patrick St. Pierre, MD, MC, Desert Orthopedic Center

70 - Bankart Remplissage Outcomes at Minimum 5-Year Follow-Up: A Systematic Review
Capt Patrick J. Tansey, MD, University of Texas Medical Branch

272 - Anchor Density Effect on Outcomes After Arthroscopic Shoulder Labral Repair
CPT John N. Wary, MD, Tripler Army Medical Center

209 - Perfect-Circle Technique and Inter-Rater Reliability in Measuring Posterior Glenoid Bone Loss
CPT Annette Yoon, MD, William Beaumont Army Medical Center

232 - Comorbidity Indices Fail to Identify Poor Outcomes After Shoulder Arthroplasty
Alexander R. Zhu, BA, Johns Hopkins University School of Medicine

Spine

56 - Osseous Engagement of Sacropelvic Porous Fusion-Fixation Screws
COL (Ret) David W. Polly, MD, University of Minnesota

59 - Use of Expert Panel for Symptomatic Patients with Grade I Degenerative Lumbar Spondylolisthesis
COL (Ret) David W. Polly, MD, University of Minnesota

61 - Prevalence of Total Joint Arthroplasty in the Adult Spine Deformity Population
COL (Ret) David W. Polly, MD, University of Minnesota

84 - The Biomechanical Insertion and Removal Characteristics of Porous Sacropelvic Implants
COL (Ret) David W. Polly, MD, University of Minnesota

Sports Injuries

87 - Rectus Femoris Tendon Reconstruction Using Achilles and Peroneus Longus Allografts
CPT Michael D. Czarnecki, DO, Tripler Army Medical Center

172 - Adjunctive Therapies for Tibial Stress Fractures: a Systematic Review
2LT Joshua J. Rogers, BS, Philadelphia College of Osteopathic Medicine

Trauma

247 - Circulating Proteomic Profiles Associated with Decreased Tourniquet-Induced Ischemia
MAJ Jonathon Florance, MD, Duke University

240 - Retained Bullet Fragments have no Effect on Healing, Infection or Revision Surgery after Gunshot Related Tibial and Femoral Fractures
Fatima Bouftas, BS, University of Chicago, Pritzker School of Medicine

274 - Preoperative Planning for Orthopaedic Trauma
CPT Marc Nicholes, DO, William Beaumont Army Medical Center

155 - Surgical Factors Influencing Complications in Tibial Plafond Fractures: The Effects of Delayed Fixation and Fixation Method
CPT Kayleigh Renfro, MD, William Beaumont Army Medical Center

199 - Cost of Border Wall-Related Trauma: A 5m Wall Height Comparison
CPT Alexis B. Sandler, MD, William Beaumont Army Medical Center

Tumor/Musculoskeletal Disease

165 - Reusing a 3-D Printed Cutting Guide in Oncologic Revision Cases
CPT James D. Baker, MD, San Antonio Military Medical Center

War Trauma/Military Medicine

49 - War Surgery: Experience in Ukraine and Gaza
Samer Attar, MD, Northwestern University