ACCREDITATION INFORMATION

PROGRAM COMMITTEE

LCDR Marvin E. Dingle, MD – Co-Chair LCDR Sean E. Slaven, MD – Co-Chair CDR Scott M. Tintle, MD LT Vivek Abraham, MD Maj Travis J. Dekker, MD MAJ Bryan K. Lawson, MD R. Judd Robins, MD LTC Daniel J. Song, MD LTC Daniel J. Stinner, MD, PhD MAJ David J. Tennent, 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 65th 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 65th Annual Meeting, December 4 – 8, 2023 to be held in Vail, Colorado for an approximate maximum of 30 AMA PRA Category 1 CreditsTM. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The Scientific Program is 23.25 AMA PRA Category 1 CreditsTM The Posters are 6.75 AMA PRA Category 1 CreditsTM

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 2023Society of Military Orthopaedic Surgeons (SOMOS) 65th 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 2023 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 5-8 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 4-8, 2023 The Hythe Vail, CO

Monday, December 4

7:30 am-4:00 pm **MAST Lab – Elbow**

12:00 pm-5:00 pm **Meeting Registration**

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

Tuesday, December 5

6:00 am -11:59 pm Speaker Ready Area

6:30 am -5:15 pm **Meeting Registration**

Opening Ceremony

Moderators: CDR Scott Tintle, MD, Walter Reed National Military Medical Center

LCDR Marvin E. Dingle, MD, US Naval Hospital Okinawa, Japan

MAJ Sean E. Slaven, MD, Walter Reed National Military Medical Center

7:00 am-7:10 am Color Guard

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

CDR Scott Tintle, MD, Walter Reed National Military Medical Center

Symposium 1 – Trauma

7:20 am-7:35 am Title TBD

Lisa K. Cannada, MD, Novant Health

7:35 am-7:50 am Title TBD

Jason Strelzow, MD, University of Chicago

General Session 1 – Trauma

Moderators: Lisa K. Cannada, MD, Novant Health

Jason Strelzow, MD, University of Chicago

7:50 am-7:56 am 309 - Surgeon Experience Impact on Complications after Severe Open

Tibial Fractures

LT Conor F. McCarthy, MD, Walter Reed National Military Medical

Center

7:56 am - 8:02 am	77 - Open, Mixed Nerve Cryoneurolysis for Subacute Pain Mitigation in Patients with Limb Loss CAPT Patrick J. McGlone, MD, Walter Reed National Military Medical Center
8:02 am-8:08 am	139 - Posterolateral Approach Associated with Increased Rate of Sural Nerve Injury CPT Natasha Simske, MD, WBAMC Orthopaedic Surgery Residency Program
8:08 am-8:14 am	243 - Comparison of Antiglide Plating to 6.5mm Screws in Hoffa Fractures CDR Chris Smith, MD, Naval Medical Center Portsmouth
8:14 am-8:20 am	Discussion
8:20 am-8:26 am	187 - Increased Complications Following Early Conversion THA After Acetabular ORIF Phillip T. Grisdela, MD, Harvard Combined Orthopaedic Residency Program
8:26 am-8:32 am	206 - The Anconeus Triceps Hemipeel Approach for Displaced Intra- Articular Distal Humeral Fractures is a Safe and Effective Technique Andrew B. Rees, MD, Atrium Health Musculoskeletal Institute
8:32 am-8:38 am	191 - Are Orthopedic Trauma Surgeons Adequately Compensated for Treating Acetabular Fractures? Nainisha Chintalapudi, MD, Atrium Health Musculoskeletal Institute
8:38 am-8:44 am	289 - Trauma as a Recurrent Disease: ISS Scores and Trauma Recidivism Capt Annemarie C. Galasso, MD, Medical University of South Carolina
8:44 am-8:50 am	Discussion
8:50 am-9:10 am	Break with Exhibitors

Special Presentation 1 – Orthopaedic Surgery in the Ukraine Conflict

9:10 am-10:10 am Modern Warfare: Orthopaedic Surgery in the Ukraine Conflict Samer Attar, MD, Northwestern University

Symposium 2 – Sports - Shoulder and Elbow

10:10 am-10:25 am Title TBD

Jeffrey R. Dugas, MD, Andrews Sports Medicine and Orthopaedic Center

10:25 am-10:40 am Title TBD

Michael J. O'Brien, MD, Tulane University

10:40 am-11:00 am Break with Exhibitors

General Session 2 – Sports – Shoulder and Elbow

Moderators: Jeffrey R. Dugas, MD, Andrews Sports Medicine and Orthopaedic Center Michael J. O'Brien, MD, Tulane University

11:00 am-11:06 am 281 - Outcomes of Revision Surgery for Failed Arthroscopic Bankart Repair

Ryan J. Whalen, BS, The Steadman Clinic

11:06 am-11:12 am 114 - Minimal Clinical Important Differences Not Uniform in Servicemembers After Shoulder Surgery

Capt Mikalyn T. DeFoor, MD, San Antonio Military Medical Center

11:12 am-11:18 am 105 - Novel Radial Head Donor Graft for Capitellum Osteochondral

Autograft Transfer: A Cadaveric Biomechanical Analysis CPT Bryan G. Adams, MD, Madigan Army Medical Center

*Presented by CPT Rachel J. Milam, MD

11:18 am-11:24 am 52 - Incorporation of Arthroscopy into Surgical Correction of Olecranon

Fractures

Van Freischmidt, OrthoCollier

11:24 am-11:30 am Discussion

11:30 am-11:36 am 42 - Comparison of Anterior Glenoid Reconstruction and Latarjet for

Shoulder Instability

2LT Jonah M Liwag, BS, Uniformed Services University of Health

Sciences

11:36 am-11:42 am 284 - Clinical and Sport Specific Outcomes after Rotator Cuff Repair in

Patients Younger than 45 Years

Peter J. Millett, MD, MSc, Steadman Philippon Research Institute

11:42 am-11:48 am 287 - Biomechanics of Caspari Weber vs. Metal Button for Biceps

Tenodesis

LT Jeremy Tran, MD, Walter Reed National Military Medical Center

11:48 am-11:54 am 46 - Fresh Osteochondral Allograft Transplantation of the Capitellum for

the Treatment of Osteochondritis Dissecans

CPT Christian Cruz, MD, Tripler Army Medical Center

11:54 am-12:00 pm Discussion

12:00 pm-1:00 pm Focused Lunch Presentations

*CME Credit Not Available

1:00 pm-3:00 pm Scientific E-Poster Session

(Presenters will be available to answer questions)

Panel Discussion 1 – Shoulder and Elbow Challenging Case Debate

3:00 pm-4:00 pm *Panel TBD*

4:00 pm-4:20 pm Break with Exhibitors

Rapid Fire Sessions 1A – Shoulder & Elbow

4:20 pm-4	1:24 pm	116 - Subacron	iial Balloons vs	. Debridement:	A Dual-Armed Sy	stematic

Review

CPT Alexis B. Sandler, MD, William Beaumont Army Medical Center

4:24 pm-4:28 pm 141 - Midterm Outcomes in Combined Biceps Tenodesis and Anterior

Labral Repair

CPT James A. Jordan, MD, William Beaumont Army Medical Center

4:28 pm-4:32 pm 124 - Imperfect Circle: Poor Interrater Reliability of the Perfect Circle

Technique

CPT Alexis B. Sandler, MD, William Beaumont Army Medical Center

4:32 pm-4:36 pm 161 - Understanding Relationships Between Reverse Total Shoulder

Arthroplasty Implant Design and Patient-Specific Complication Risk: A

Game-Theory-Base Machine Learning Approach

ENS Jacob F. Oeding, MS, Mayo Clinic Alix School of Medicine

4:36 pm-4:40 pm 149 - Concomitant SLAP Repair Does Not Portend Worse Outcomes

Following Arthroscopic Posterior Glenohumeral Stabilization

CPT Logan A. Kenney, MD, William Beaumont Army Medical Center

4:40 pm-4:44 pm 160 - Anatomic Total Shoulder Arthroplasty Is Cost-Effective in Patients

Over 67 Years of Age With Glenohumeral Osteoarthritis and an Intact Rotator Cuff: A Decision-Analytic Markov Model-Based Cost-Utility

Analysis

ENS Jacob F. Oeding, MS, Mayo Clinic Alix School of Medicine

4:44 pm-4:47 pm Discussion

4:47 pm-4:51 pm	223 - Risk Factors for Glenoid Bone Loss in the Setting of Posterior Glenohumeral Instability CPT Cole Patrick, MD, William Beaumont Army Medical Center	
4:51 pm-4:55 pm	123 - Posterior and Combined-Type Shoulder Instability: A Military Base's 10-Year Experience CPT Michael M. Polmear, MD, William Beaumont Army Medical Center	
4:55 pm-4:59 pm	143 - Treatment of Periprosthetic Humerus Fractures after Shoulder Arthroplasty: A Systematic Review Capt Patrick J. Tansey, MD, University of Texas Medical Branch	
4:59 pm-5:03 pm	164 - Outcomes of Treating On-Track and Off-Track Lesions with Open Latarjet CPT John N. Wary, MD, Tripler Army Medical Center	
5:03 pm-5:07 pm	148 - Establishing the Minimal Clinically Important Difference, Substantial Clinical Benefit, and Patient Acceptable Symptomatic State After Arthroscopic Posterior Labral Repair CPT Logan A. Kenney, MD, William Beaumont Army Medical Center	
5:07 pm-5:11 pm	222 - Preoperative Mental Health Status Predicts Rotator Cuff Repair Outcomes CPT Dexter C. Allen, MD, University of Texas Medical Branch	
5:11 pm-5:15 pm	Discussion	
Rapid Fire Sessions 1B – Trauma		
4:20 pm-4:24 pm	57 - Detecting Traumatic Ankle Arthrotomies: CT Scan vs. Saline Load Test LT Thomas J. Berault, MD, Naval Medical Center Portsmouth	
4:24 pm-4:28 pm	131 - Traumatic Transradial Forearm Amputation Temporized with Extracorporeal Membrane Oxygenation (ECMO) CPT Erik Hegeman, MD, Brooke Army Medical Center	
4:28 pm-4:32 pm	140 - Tobacco Smoking Portends Worse Functional Outcomes after Acetabular Fracture CPT Natasha Simske, MD, William Beaumont Army Medical Center	
4:32 pm-4:36 pm	199 - Increased Complications Following Conversion THA After Cutout of Hip Fracture Fixation Phillip T. Grisdela, MD, Harvard Combined Orthopaedic Residency Program	

4:36 pm-4:40 pm	108 - A Comparison of Outcomes in Ankle Syndesmosis Injuries Treated Operatively LT Reinaldo E. Colon-Morillo, MD, Harvard Combined Orthopaedic Residency Program	
4:40 pm-4:44 pm	80 - Evaluation of Treatment Trends in Distal Femur Fractures Amongst Early Surgeons CPT Cole Patrick, MD, William Beaumont Army Medical Center	
4:44 pm-4:47 pm	Discussion	
4:47 pm-4:51 pm	291 - Collagen X as a Fracture Biomarker Associated with Clinical Healing <i>Chelsea S. Bahney, PhD, Steadman Philippon Research Institute</i>	
4:51 pm-4:55 pm	279 - SAVIT, a Novel Risk Score, Predicts Limb Salvage MAJ Jefferson Lansford, MD, Walter Reed National Military Medical Center	
4:55 pm-4:59 pm	298 - Novel Technology to Assess Post-Fracture Pain in an Animal Model Chelsea S. Bahney, PhD, Steadman Philippon Research Institute	
4:59 pm-5:03 pm	267 - Orthopaedic Trauma Research: Do US Partner Nations Truly Benefit? Jerome Andres, BA, David Geffen School of Medicine at UCLA	
5:03 pm-5:07 pm	245 - Technical Considerations and Early Results of Magnetic Compressive Intramedullary Nailing for Tibial and Femoral Shaft Non- Unions CPT Daniel J. Cognetti, MD, Brooke Army Medical Center	
5:07 pm-5:11 pm	188 - Is Fixing a Fracture Below a Short Nail Really Easier? A Comparative Study of Peri-Implant Fractures. LT Jonathan C. Savakus, MD, Vanderbilt University Medical Center	
5:11 pm-5:15 pm	Discussion	
Rapid Fire Sessions 1C – Hand & Wrist		
4:20 pm-4:24 pm	328 - Is PRP Effective for Wrist Sprains and TFCC tears CPT Anthony N. Gavalas, MD, William Beaumont Army Medical Center	
4:24 pm-4:28 pm	325 - Interobserver Reliability of Radiographic Parameters following Closed Reduction of Distal Radius Fractures CPT Gabriel Mason, MD, San Antonio Military Medical Center	

4:28 pm-4:32 pm	153 - Who Gets Scaphoid Surgery: Epidemiology of Scaphoid Fractures CPT Anthony N. Gavalas, MD, William Beaumont Army Medical Center
4:32 pm-4:36 pm	186 - Effects of Socioeconomic Factors on Presentation of Cubital Tunnel
	Syndrome Phillip T. Grisdela, MD, Harvard Combined Orthopaedic Residency Program
4:36 pm-4:40 pm	216 - Evaluating PASS for BCTQ following Carpal and Cubital Tunnel Release Capt Jantz J. Arbon, MD, Brooke Army Medical Center
4:40 pm-4:44 pm	94 - Increasing Selective Utilization of Wrist Arthroscopy by Hand Surgeons Despite Overall Stable Usage over the Past Decade CPT Cole Patrick, MD, William Beaumont Army Medical Center
4:44 pm-4:47 pm	Discussion
4:47 pm-4:51 pm	242 - Impact on Safety of Preoperative Ultrasound for CTR: A Case Series <i>Marin Smith, DPT, The Geneva Foundation</i>
4:51 pm-4:55 pm	130 - Evaluation of Porcine Peripheral Nerves with Magnetic Resonance Neurography to Monitor Nerve Injuries and Repairs following PEG Fusion CPT Erik Hegeman, MD, Brooke Army Medical Center
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4:55 pm-4:59 pm	111 - Return to Duty Following Limb Salvage with Free Flap CPT Alexandria Murphy, MD, MS, Madigan Army Medical Center
4:59 pm-5:03 pm	213 - Predictors of Early Patient Initiated Contact After Carpal Tunnel Release LT Kevin O'Mary, DO, University of Texas Medical Branch
5:03 pm-5:07 pm	198 - Return to Duty after Operative Management of Triangular
	Fibrocartilage Injuries Maggie M. Scribner, MD, Tripler Army Medical Center
5:07 pm-5:11 pm	159 - Diagnostic Performance of Artificial Intelligence for Detection of Scaphoid and Distal Radius Fractures: A Systematic Review ENS Jacob F. Oeding, MS, Mayo Clinic Alix School of Medicine
5:11 pm-5:15 pm	Discussion

Rapid Fire Sessions 1D – Practice Management & Misc.

4:20 pm-4:24 pm	151 - Economic Feasibility of Cadaver-Based Training at an Academic Military Hospital LT Alexander D. Li, MD, Naval Medical Center Portsmouth
4:24 pm-4:28 pm	50 - Resiliency Instability in Patients Undergoing Shoulder Surgery Utilizing the Brief Resiliency Score LTC Daniel J. Song, MD, San Antonio Military Medical Center
4:28 pm-4:32 pm	210 - Diabetes Stewardship in Orthopaedics? Observations from a Hand Surgery Clinic Capt Sarah E. Poirier, MD, Cleveland Clinic Foundation
4:32 pm-4:36 pm	145 - Medical Student "Bootcamp" Increases Knowledge and Preparedness for Away Rotations Capt Patrick J. Tansey, MD, University of Texas Medical Branch
4:36 pm-4:40 pm	179 - Deficiencies in Military Health System Inpatient List Functionality Negatively Impact Orthopaedic Resident Education and Wellness Capt Raul A. Davalos III, MD, Brooke Army Medical Center
4:40 pm-4:44 pm	248 - Defining the Pipeline of Women in Orthopaedic Surgical Residency Training ENS Ashlynn K. Gunderson, BA, Howard University College of Medicine
4:44 pm-4:47 pm	Discussion
4:47 pm-4:51 pm	280 - Precocious Leadership in Military Orthopaedic Surgery CPT Marcus Hoof, MD, San Antonio Military Medical Center
4:51 pm-4:55 pm	100 - Journal Club Efficacy – Survey of Orthopaedic Attending Surgeons and Residents CPT Michael M. Polmear, MD, William Beaumont Army Medical Center
4:55 pm-4:59 pm	310 - Burnout in Military Orthopaedic Surgery: A Multicenter, Cross-Sectional Study LT Jordan Tropf, MD, Walter Reed National Military Medical Center
4:59 pm-5:03 pm	122 - Female Patients Sustain Serious Orthopaedic Trauma Traversing the US-Mexico Border <i>CPT Alexis B. Sandler, MD, William Beaumont Army Medical Center</i>
5:03 pm-5:07 pm	175 - Factors Influencing Residency Selection Among Females Across All Surgical Specialties Capt Sarah E Poirier, MD, Cleveland Clinic Foundation

5:07 pm-5:11 pm 221 - Female Authorship in Orthopaedics: Changes in JBJS Over a

Decade

CPT Alexis B. Sandler, MD, William Beaumont Army Medical Center

5:11 pm-5:15 pm Discussion

Wednesday, December 6

6:00 am -11:59 pm Speaker Ready Area

6:30 am -5:15 pm **Meeting Registration**

Symposium 3 – Foot and Ankle

7:00 am-7:15 am Title TBD

COL (Ret) James R. Ficke, MD, Johns Hopkins University

7:15 am-7:30 am Title TBD

Scott B. Shawen, MD, Orthocarolina

General Session 3 – Foot and Ankle

Moderators: COL (Ret) James R. Ficke, MD, Johns Hopkins University

Scott B. Shawen, MD, Orthocarolina

7:30 am-7:36 am 258 - Effects of Losartan and Fisetin on Microfracture Mediated Cartilage

Repair of Ankle Cartilage in a Rabbit Model

Ingrid K. Stake, MD, Ostfold Hospital

7:36 am-7:42 am 118 - Prospective Evaluation of Rate of Fusion with Augment® Bone

Graft

Capt Jacob I. Priester, MD, University of California, Davis

7:42 am-7:48 am 195 - Narcotic Use Among Workers Compensation Foot and Ankle

Patients

Capt Tyler M. Goodwin, MD, University of Tennessee Health Science

Center Chattanooga

*Presented by Richard D. Murray, MD

7:48 am-7:54 am 283 - Advances in Fibular Plating Technology: Are the Increased Costs

Justified?

CPT Bonamico Jacobs, MD, Dwight D. Eisenhower Army Medical

Center, Orthopaedic Surgery

7:54 am-8:00 am Discussion

8:00 am-8:06 am	259 Biomechanical Role of the Deltoid Ligament on Ankle Stability Alex W. Brady, Steadman Philippon Research Institute
8:06 am-8:12 am	35 - Outcomes of Lisfranc Injuries Treated with Flexible Augmentation Device CAPT Patrick M. Wise, MD, University of California, Davis
8:12 am-8:18 am	73 - Subtalar and Ankle Joint Destruction with Reaming for Tibiotalocalcaneal Nailing CPT James D. Baker, MD, San Antonio Military Medical Center
8:18 am-8:24 am	14 - Suture Button Fixation for Lisfranc Injuries: A Systematic Review LT Andrew D. Lachance, MD, Guthrie Clinic
8:24 am-8:30 am	Discussion
8:30 am-8:50 am	Break with Exhibitors

AAOS Update & Business Meeting

Moderator: CDR Scott Tintle, MD, Walter Reed National Military Medical Center *CME Credit Not Available

8:50 am-9:05 am AAOS Update

9:05 am-9:20 am Business Meeting

Symposium 4 - Hand: Jamie Dianne Bulken-Hoover Memorial Hand Session

9:20 am-9:35 am Title TBD

A. Bobby Chhabra, MD, University of Virginia

9:35 am-9:50 am Title TBD

Jennifer M. Wolf, MD, PhD, University of Chicago

9:50 am-10:10 am Break with Exhibitors

General Session 4 -Hand: Jamie Dianne Bulken-Hoover Memorial Hand Session

Moderators: A. Bobby Chhabra, MD, *University of Virginia* Jennifer M. Wolf, MD, PhD, *University of Chicago*

10:10 am-10:16 am 218 - Second Metacarpal Cortical Percentage Predicts Loss of Distal

Radius Reduction

Capt Clinton J. Ulmer, MD, UT Health San Antonio

10:16 am-10:22 am 142 - Postoperative pain and Opioid Use in Upper Extremity Orthopedic

Surgery

	CPT Amy Thompson, MD, William Beaumont Army Medical Center	
10:22 am-10:28 am	144 - Venous Thromboembolism and Postoperative Bleeding Rates in Upper Extremity Orthopedic Surgery CPT Amy Thompson, MD, William Beaumont Army Medical Center	
10:28 am-10:34 am	314 - Ideal Imaging for Base of the 5th Metacarpal Fractures CPT Hannah N. Imlay, MD, Tripler Army Medical Center	
10:34 am-10:40 am	Discussion	
10:40 am-10:46 am	217 - Implementation of a Hand Training Curriculum in Junior Resident Education CPT James D. Baker, MD, San Antonio Military Medical Center	
10:46 am-10:52 am	113- Bridge vs. Volar Plating Polytrauma Patients with Lower Extremity Fractures Frank Martinez, BS, Mayo Clinic	
10:52 am-10:58 am	129 - A Translational Porcine Model for Polyethylene Glycol Fusion-Based Therapies in Nerve Reconstruction After Large-Gap Peripheral Nerve Injury CPT Erik Hegeman, MD, Brooke Army Medical Center	
10:58 am-11:04 am	38 - Admission of Upper Extremity Injuries Presenting to the Emergency Department: An NEISS Study CPT Michael D. Eckhoff, MD, Brian D. Allgood Army Community Hospital	
11:04 am-11:10 am	Discussion	
11:10 am-12:10 pm	Focused Lunch Presentations *CME Credit Not Available	
12:10 pm-3:00 pm	Scientific E-Poster Session (Presenters will be available to answer questions)	
Panel Discussion 2 – Diversity, Equity and Inclusion		
3:00 pm-4:00 pm	SOMOS and DEI Panel: Erica Taylor, MD, MBA, Duke University Medical Center Panel TBD	
4:00 pm-4:20 pm	Break with Exhibitors	

Rapid Fire Sessions 2A – War Trauma/Military Medicine & Bone Health

4:20 pm-4:24 pm	82 - Outcome Measures and Complications of Transfemoral Osseointegration Surgery Julio Rivera, PhD, Uniformed Services University of the Health Sciences
4:24 pm-4:28 pm	272 - Cortical thickness and serum Calcium may affect Outcomes following Transfemoral Osseointegration Surgery Angelica M. Melendez-Munoz, BS, Walter Reed National Military Medical Center
4:28 pm-4:32 pm	83 - Outcome Measures and Complications of Transhumeral Osseointegration Surgery Julio Rivera, PhD, Uniformed Services University of the Health Sciences
4:32 pm-4:36 pm	135 - Long Term Follow Up After Elective Trans-Tibial Amputation: CRPS and Neuropathic Pain vs Other Causes of Delayed Amputation After Limb Salvage ENS Addison G. Cantor, BS, Walter Reed National Military Medical Center
4:36 pm-4:40 pm	323 - Does Initial Fracture Line Percentage Predict Risk of Progression to Surgery in Femoral Neck Stress Fractures CPT Casey S. Mueller, MD, Dwight D. Eisenhower Army Medical Center
4:40 pm-4:44 pm	249 - Structured Orthopaedic Surgery Training in Theater Hospital Operations Replication CDR Chris Smith, MD, Naval Medical Center Portsmouth
4:44 pm-4:47 pm	Discussion
4:47 pm-4:51 pm	266 - A Field Evaluation of Proprietary and Improvised Pelvic Binders Capt Thomas Howe, MBBS BSc, British Army
4:51 pm-4:55 pm	204 - Whole Body Vibration and Lower Back Pain: A Systematic Review of the Current Literature Major Abigail Bainbridge, MBChB, BSC, Defence Medical Deanary
4:55 pm-4:59 pm	70 - Medical Readiness Among U.S. Military Personnel Presenting for Orthopaedic Care Andrew MacGregor, PhD, MPH, Naval Health Research Center
4:59 pm-5:03 pm	290 - Hounsfield Units Predict Poor Bone Health Among Sex and Race 2LT Matthew M. McDonough, BS, Uniformed Services University of the Health Sciences

5:03 pm-5:07 pm	286 - Hounsfield Units are a Viable Measure for Predicting Fragility Fracture When Compared to "FRAX" LT Janse Schermerhorn, MD, Walter Reed National Military Medical Center
5:07 pm-5:11 pm	247 - Quantitative Analysis of Condition Based Limited Duty on Musculoskeletal Conditions CDR Chris Smith, MD, Naval Medical Center Portsmouth
5:11 pm-5:15 pm	Discussion
Rapid Fire Sessions	2B – Sports Medicine
4:20 pm-4:24 pm	251 - A Novel Approach to the Tibial Tubercle Osteotomy: Early Safety Outcomes from a Prospective Cohort Study ENS Aimee Steen, BA, Western University of Health Sciences College of Osteopathic Medicine of the Pacific
4:24 pm-4:28 pm	312 - Impact of Femoral Derotational Osteotomy Level on Patellofemoral Joint Loading LT Conor F. McCarthy, MD, Walter Reed National Military Medical Center
4:28 pm-4:32 pm	167 - Reevaluating Evidence for Platelet-Rich Plasma in Knee Osteoarthritis: A Systematic Review and Meta-Analysis of the Statistical Fragility of Randomized Controlled Trials ENS Jacob F. Oeding, MS, Mayo Clinic Alix School of Medicine
4:32 pm-4:36 pm	246 - Osteochondral Allograft Transplantation Using Dowell Technique for the Treatment of Steroid-Associated Osteonecrosis of the Femoral Condyles LCDR Nicholas Perry, MD, Naval Medical Center San Diego
4:36 pm-4:40 pm	263 - Planned Tunnel Convergence for Concomitant Posterior Cruciate Ligament Reconstruction and Meniscal Root Repair LT Kathryn C. Yeager, MD, University of New Mexico Hospital
4:40 pm-4:44 pm	95 - Accuracy of Intraoperative Retrograde Reaming Measurement During Cruciate Ligament Socket Drilling CPT Emily McDermott, MD, San Antonio Military Medical Center
4:44 pm-4:47 pm	Discussion
4:47 pm-4:51 pm	255 - Headless Screw Fixation Reduces Re-Operation Risk Following Tibial Tubercle Osteotomy: A Prospective Cohort Study

	ENS Aimee Steen, BA, Western University of Health Sciences College of Osteopathic Medicine of the Pacific
4:51 pm-4:55 pm	326 - US Military Exertional Compartment Syndrome Burden and Risk Factors LCDR John P. Waggoner, MD, MPH, MAS, MA, Naval Medical Center San Diego
4:55 pm-4:59 pm	264 - Does Bone Marrow Aspirate Concentrate Use Improve Hip Arthroscopy Outcomes? A Systematic Review LT Jack R Gagné, MD, NMRTU Groton
4:59 pm-5:03 pm	330 - Which Osteochondritis Dissecans Lesions of the Knee Will Heal Non-Operatively? ENS Thomas Michael Johnstone, BS, Stanford University School of Medicine
5:03 pm-5:07 pm	115 - Resilience Inconclusively Affects Clinical Outcomes after Arthroscopy: A Systematic Review Capt Mikalyn T. DeFoor, MD, San Antonio Military Medical Center
5:07 pm-5:11 pm	277 - Basic Trainee Fitness and Femoral Neck Stress Fracture Timing CPT Casey S. Mueller, MD, Dwight D. Eisenhower Army Medical Center, Orthopaedic Surgery
5:11 pm-5:15 pm	Discussion
Rapid Fire Sessions	2C – Shoulder & Elbow
4:20 pm-4:24 pm	225 - Concomitant Glenohumeral Stabilization Does Not Portend Worse Outcomes Following Arthroscopic Rotator Cuff Repair in Military Patients Under 40 CPT Cole Patrick, MD, William Beaumont Army Medical Center
4:24 pm-4:28 pm	136 - Glenoid Bone Loss in Combined Shoulder Instability: Prevalence and Risk Factors in a Cohort of Young, Active-Duty Military Patients CPT Franklin J. Powlan, MD, William Beaumont Army Medical Center
4:28 pm-4:32 pm	74 - The Influence of Posterior Acromial Morphology on Outcomes and Return to Pushups in Young Patients Undergoing Arthroscopic Posterior Capsulolabral Repair CPT Patrick W. Rooney, MD, Madigan Army Medical Center
4:32 pm-4:36 pm	81 - Superior Capsular Reconstruction vs. Marginal Convergence for Massive Rotator Cuff Tears CPT Logan A. Kenney, MD, William Beaumont Army Medical Center

4:36 pm-4:40 pm	270 - Simulation Optimized Surgical Planning for Reverse Total Shoulder Arthroplasty Colin R Smith, PhD, Steadman Philippon Research Institute
4:40 pm-4:44 pm	227 - Glenoid Bone Loss in Posterior Shoulder Instability: Correlation to Long Term Clinical Outcomes in a Cohort of Active-Duty Military Patients Under 40 Isaac Fernandez, MD, Texas Tech University Health Sciences Center
4:44 pm-4:47 pm	Discussion
4:47 pm-4:51 pm	48 - Transcriptomics of Anterior Shoulder Instability: Differences in Gene Expression in the Blood of Patients with and without Significant Glenoid Bone Loss LTC Joseph W. Galvin, DO, Madigan Army Medical Center *Presented by CPT Patrick W. Rooney, MD
4:51 pm-4:55 pm	282 - Subscapularis Tendon Management in Total Shoulder Arthroplasty: Unicortical Button Fixation vs. Transosseous Repair Ryan J. Whalen, BS, The Steadman Clinic
4:55 pm-4:59 pm	39 - Equivocal Post-Operative Pain and Function after Biceps Tenodesis using an Expedited Sling Protocol: A Two Year Update ENS Andrew J. Recker, BS, Wake Forest School of Medicine
4:59 pm-5:03 pm	169 - Early Surgery and Nonoperative Management with PRP Provide Superior Cost-Effectiveness When Compared to Nonoperative Management Alone for Partial Tears of the UCL in Baseball Pitchers: Outcomes From 1,000 Simulated Patients ENS Jacob F. Oeding, MS, Mayo Clinic Alix School of Medicine
5:03 pm-5:07 pm	87 - Congruent-arc Distal Clavicle Autograft for Anterior Glenoid Reconstruction: CT Analysis CPT Brooke Kowalski, MD, Madigan Army Medical Center
5:07 pm-5:11 pm	162 - Predicting and Understanding the Risk for Shoulder and Elbow Injuries in Major League Baseball Pitchers: A Game-Theory-Based Machine Learning Approach ENS Jacob F. Oeding, MS, Mayo Clinic Alix School of Medicine
5:11 pm-5:15 pm	Discussion

Rapid Fire Sessions 2D – Pediatrics

4:20 pm-4:24 pm 37 - The Inferior Sacral Iliac Line, A New Horizontal Reference Plane.

	LT Thomas J. Berault, MD, Naval Medical Center Portsmouth
4:24 pm-4:28 pm	184 - Open and Concomitant Injuries with Pediatric Supracondylar Humerus Fractures CPT Andrew R. Cooper, MD, Tripler Army Medical Center
4:28 pm-4:32 pm	180 - Cost Analysis and Demographic Investigation into Tendon Transfers for Congenital Talipes Equinovarus (Congenital Clubfoot): A Truven Database Study CPT Kyle J. Klahs, DO, William Beaumont Army Medical Center
4:32 pm-4:36 pm	317 - The Diagnostic Utility of Hip Ultrasound in the DIAGNOSIS of Septic Arthritis of the Hip in Pediatric Patients LCDR Nicholas P. Lopreiato, MD, Walter Reed National Military Medical Center
4:36 pm-4:40 pm	275 - Have AVBT Outcomes Improved Over Time? An Examination of Survivorship Trends MAJ Joshua C. Tadlock, MD, San Antonio Military Medical Center
4:40 pm-4:44 pm	212 - Parent Perspectives on Firearm Safety Discussions in a Pediatric Orthopedic Surgery Clinic Capt Annemarie C. Galasso, MD, Medical University of South Carolina
4:44 pm-4:47 pm	Discussion
4:47 pm-4:51 pm	8 - Investigation of Pediatric Distal Humerus Fractures: A TRUVEN Database Study CPT Kyle J. Klahs, DO, William Beaumont Army Medical Center
4:51 pm-4:55 pm	176 - Radiographic Evaluation of Diaphyseal Forearm Fracture Rotation LT Samuel Renfro, MD, Naval Medical Center Portsmouth
4:55 pm-4:59 pm	244 - TAL and ATTT for Previously Untreated Clubfoot in Children Age 2 to 10 years old <i>Joshua Chen, MD, Inspira Medical Center</i>
4:59 pm-5:03 pm	28 - The Prevalence of Hip Dysplasia Present on Screening Radiographs for Adolescent Idiopathic Scoliosis Capt Annemarie C. Galasso, MD, Medical University of South Carolina
5:03 pm-5:07 pm	185 - Pediatric Supracondylar Fractures Cost Analysis: A Deidentified Database Study CPT Andrew R. Cooper, MD, Tripler Army Medical Center

5:07 pm-5:11 pm 36 - Transient Synovitis After COVID-19 Infection: Case Report and

Literature Review

LT Evan D. Crawford, DO, Naval Medical Center Portsmouth

5:11 pm-5:15 pm Discussion

Thursday, December 7

6:00 am -11:59 pm Speaker Ready Area

6:30 am -6:15 pm **Meeting Registration**

Symposium 5 – Sports Knee and Hip

7:00 am-7:15 am Titles TBD

Marc J. Philippon, MD, The Steadman Clinic

7:15 am-7:30 am Titles TBD

CAPT (Ret) Matthew T. Provencher, MD, MBA, The Steadman Clinic and

Steadman Philippon Research Institute

General Session 5 – Sports Knee and Hip

Moderators: Marc J. Philippon, MD, The Steadman Clinic

CAPT (Ret) Matthew T. Provencher, MD, MBA, The Steadman Clinic and

Steadman Philippon Research Institute

7:30 am-7:36 am 23 - Return to Duty After High Tibial Osteotomy: A Radiographic

Analysis

LT Scott Feeley, MD, Walter Reed National Military Medical Center

7:36 am-7:42 am 329 - Predictors of Femoral Neck Stress Fracture Progression to Reach

Operative Indication

CPT Justin J. Reagh, MD, Eisenhower Army Medical Center

7:42 am-7:48 am 261 - Weight-Bearing Ultrasound Detects Changes in Physiologic Medial

Meniscal Extrusion

Lauren Watkins, Steadman Philippon Research Institute

7:48 am-7:54 am 332 - Lateral Meniscus Radial Tears - Biomechanics of Four All-Inside

Repair Techniques

ENS Thomas Michael Johnstone, BS, Stanford University School of

Medicine

7:54 am-8:00 am Discussion

8:00 am-8:06 am 66 - Increased Incidence of Anterior Cruciate Ligament Ruptures in

Collegiate Division I Soccer Players Following Stop of Injury Prevention

Program

CPT Emily McDermott, MD, San Antonio Military Medical Center

8:06 am-8:12 am 117 - An Evolution of 20 Years of ACL Reconstructions in the Military

Repairs, Allografts and Autografts

COL(R) Craig R. Bottoni, MD, Tripler Army Medical Center

8:12 am-8:18 am 190 - Hip Arthroscopy in Recreational Athletes: Risk Factors for Failure

to Return to Sport and Factors that Influence Psychological Readiness to

Return to Sport

LCDR KJ Hippensteel, MD, Walter Reed National Military Medical

Center

8:18 am-8:24 am 334 - Femoroacetabular Impingement: Preoperative Characteristics and

Postoperative Duty Status within a Military Population CPT Jeffrey L. Wake, DO, Tripler Army Medical Center

8:24 am-8:30 am Discussion

Panel Discussion 3 – Sports Knee and Hip Challenging Case Debate

8:30 am-9:15 am *Panel TBD*

9:15 am-9:30 am Refreshment Break

Symposium 6 - Adult Reconstruction Hip and Knee

9:30 am-10:00 am Title TBD

Joel Matta, MD, The Steadman Clinic

9:30 am-10:00 am Title TBD

Kiel J. Pfefferle MD, Spi Orthopaedics and Sports Medicine

General Session 6 – Adult Reconstruction Hip and Knee

Moderator: Joel Matta, MD, The Steadman Clinic

Kiel J. Pfefferle MD, Spi Orthopaedics and Sports Medicine

10:00 am-10:06 am 64 - ERSA vs. MTF: Comparing Efficiency in Military Total Joint

Arthroplasty

CPT Kenneth J. Fellows, MD, Brooke Army Medical Center

10:06 am-10:12 am 91 - Mental Health Factors Associated with Post Operative Emergency

Department Presentation Following Primary Total Joint Arthroplasty

Stephanie Price, MD, MPH, UT Dell Medical School

10:12 am-10:18 am	84 - Incidence and Risk Factors for Periprosthetic Joint Infection in Patients with Total Hip and Knee Arthroplasty Undergoing Preoperative Colonoscopy LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center
10:18 am-10:24 am	85 - Incidence and Risk Factors for Periprosthetic Joint Infection in Patients with Total Hip and Knee Arthroplasty Undergoing Postoperative Colonoscopy LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center
10:24 am-10:30 am	Discussion
10:30 am-10:36 am	208 - The Cost of Delayed Referral for Prosthetic Joint Infection Josef E. Jolissaint, MD, Atrium Health Musculoskeletal Institute
10:36 am-10:42 am	55 - Conversion of Unicompartmental to Total Knee Arthroplasty: Are Revision Components Necessary? Joyee Tseng, BS, MS, Rush University Medical Center
10:42 am-10:48 am	146 - Short Term Outcomes in Unicompartmental vs. Total Knee Arthroplasty LT Graham E. Sullivan, MD, Naval Medical Center Portsmouth
10:48 am-10:54 am	202 - Running After Hip and Knee Arthroplasty: Patient Reported Activity CPT Matthew J. Kinnard, MD, Walter Reed National Military Medical Center
10:54 am-11:00 am	Discussion
11:00 am-12:00 pm	Focused Lunch Presentations *CME Credit Not Available
12:00 pm-2:00 pm	Scientific E-Poster Session (Presenters will be available to answer questions)
Rapid Fire Session 3A – Adult Reconstruction	
2:00 pm-2:04 pm	305 - Biochemical and Histologic Milieu of Pulvinar Inflammation and Osteoarthritis Progression Ben Kuhns, MD, The Steadman Clinic
2:04 pm-2:08 pm	125 - Management of Isolated Greater Trochanter Fractures associated with Total Hip Arthroplasty

	CPT Erik Hegeman, MD, Brooke Army Medical Center
2:08 pm-2:12 pm	96 - Predictors of MUA after Knee Arthroplasty in Military Health System CPT Matthew J. Kinnard, MD, Walter Reed National Military Medical Center
2:12 pm-2:16 pm	68 - High Conversion Rate among Military Members after Unicompartmental Knee Arthroplasty LT Robert A. Tardif, MD, Naval Medical Center Portsmouth
2:16 pm-2:20 pm	63 - A Systematic Review on Revision Total Hip Arthroplasty Employing the Direct Anterior Approach LT Cord J. Peters, MD, Naval Medical Center Portsmouth
2:20 pm-2:24 pm	207 - Treatment at a Specialized Prosthetic Joint Infection Center Improves Mortality Rates Capt Samuel L. Posey, MD, Atrium Health Musculoskeletal Institute
2:24 pm-2:30 pm	Discussion
2:30 pm-2:34 pm	209 - Delayed Referral for Prosthetic Joint Infection Leads to Inferior Outcomes Alexander Dombrowsky, Atrium Health Musculoskeletal Institute
2:34 pm-2:38 pm	234 - Prior Patellectomy: Comparing CR and PS Total Knee Arthroplasty Survivorship and Reported Outcomes CPT Matthew E. Wells, DO, William Beaumont Army Medical Center
2:38 pm-2:42 pm	338 - Skiving or Diving: A Cadaver Study on the Uniformity of Tibial Cuts CPT Erickson Andrews, MD, Henry Ford Health System
2:42 pm-2:46 pm	58 - Patients with Periprosthetic Joint Infection Have Elevated Omega-6: Omega-3 Ratio in Blood LT Laura Y. Lu, MD, Massachusetts General Hospital/Harvard Medical School
2:46 pm-2:50 pm	110 - Outcomes of Isolated Femoral Revision THA following Periprosthetic Fracture in the Acute Period Alexander T. Bradley, MD, Rush University Medical Center
2:50 pm-2:54 pm	237 - Synthetic Mesh Augmentation of an Acute Quadriceps Tendon Repair in a Well-Functioning Total Knee Arthroplasty CPT Alexys Bermudez, MD, Tripler Army Medical Center

2:54 pm-3:00 pm

Discussion

Rapid Fire Session 3B – Sports Medicine Knee & Hip

2:00 pm-2:04 pm	294 - Understanding the Roles of Senescence in an Acute ACL Injury Lucas Minas, Steadman Philippon Research
2:04 pm-2:08 pm	72 -Evaluating Nonoperatively Treated Proximal Tibia Stress Fractures LCDR Christopher Martin, MD, Naval Medical Center San Diego
2:08 pm-2:12 pm	254 - Biomechanical Analysis of Meniscotibial Ligament Tenodesis to Treat Meniscal Extrusion Justin Hollenbeck, BS, MS, Steadman Philippon Research Institute
2:12 pm-2:16 pm	157 - Operative Treatment has Greater Expected Value than Nonoperative Treatment for First-Time Patellar Dislocations: A Meta-Analysis and Expected Value Decision Analysis ENS Andrew J. Recker, BS, Wake Forest School of Medicine
2:16 pm-2:20 pm	183 - Comparing Bone-Tendon Autograft with Bone-Tendon-Bone Autograft for ACL Reconstruction, Five Year Outcomes CPT Timothy H. Stocker-Downing, DO, Tripler Army Medical Center
2:20 pm-2:24 pm	269 - Comparison of Injuries in Professional Football Based on Playing Surface <i>Ryan J. Whalen, BS, The Steadman Clinic</i>
2:24 pm-2:30 pm	Discussion
2:30 pm-2:34 pm	252 - Medial Meniscal Root Forces after Meniscotibial Ligament Disruption and Repair Justin Hollenbeck, BS, MS, Steadman Philippon Research Institute
2:34 pm-2:38 pm	67 - Acute Anterior Cruciate Ligament Reconstruction Performed Within Ten Days of Injury Does Not Increase Risk of Postoperative Arthrofibrosis: A Systematic Review and Meta-Analysis CPT Emily McDermott, MD, San Antonio Military Medical Center
2:38 pm-2:42 pm	45 - Bipolar Osteochondral Allograft Transplantation of the Patello-Trochlear Joint: Mid-Term Outcomes <i>CPT Christian Cruz, MD, Tripler Army Medical Center</i>
2:42 pm-2:46 pm	189 - The Effect of Femoral Retroversion on Hip Range of Motion: A 3D Computational Analysis LCDR KJ Hippensteel, MD, Walter Reed National Military Medical Center

2:46 pm-2:50 pm	331 - Menisco-Tibial Ligament Complex Anatomy and Biomechanics: Implications for Meniscus Repairs ENS Thomas Michael Johnstone, BS, Stanford University School of Medicine
2:50 pm-2:54 pm	196 - Hip Paralabral Cyst as a Cause of Femoral Vein Thrombosis Treated with Arthroscopic Cyst Decompression and Labral Reconstruction Capt Tyler M. Goodwin, MD, University of Tennessee Health Science Center Chattanooga
2:54 pm-3:00 pm	Discussion
Rapid Fire Session 3	3C – Spine
2:00 pm-2:04 pm	47 - Kickstand Rod Improves Coronal Alignment and Maintains Correction Compared to Control CPT Anson G. Bautista, MD, Dwight D. Eisenhower Army Medical Center
2:04 pm-2:08 pm	319 - Impact of Neurocheck Frequency on Delirium following Traumatic Brain Injury EOD1 Philip J. Davis, BS, Vanderbilt University School of Medicine
2:08 pm-2:12 pm	44 - A Sacral Fracture Model to Demonstrate Effects on Sagittal Alignment David W. Polly, MD, University of Minnesota
2:12 pm-2:16 pm	4 - Injuries and Chronic Musculoskeletal Pain Among High-Speed Boat Operators CPT Yohan Robinson, MD, PhD, MBA, Armed Forces Centre for Defence Medicine
2:16 pm-2:20 pm	51 - Incidence of S1 Fracture after Lumbosacral Interbody Fusion Nathan R. Hendrickson, MD, MS, University of Minnesota
2:20 pm-2:24 pm	240 - Effects of a Combined Spine Service on Orthopaedic Training LT Robert G. Patterson, DO, Naval Medical Center Portsmouth
2:24 pm-2:30 pm	Discussion
2:30 pm-2:34 pm	119 - Early Results of Adult Spinal Deformity Correction with Robotic Assistance CDR Roland S. Kent, MD, Musculoskeletal Education and Research Center
2:34 pm-2:38 pm	273 - Biomechanical Comparison of C3 Dome Laminectomy vs. Open- Door Plate Laminoplasty

	LT Jeremy Tran, MD, Walter Reed National Military Medical Center
2:38 pm-2:42 pm	75 - Novel Injection Technique Predictive Pain Relief after Removal of Instrumentation CPT John D. Synovec, MD, MBA, Jack Hughston Memorial Orthopedic Residency
2:42 pm-2:46 pm	102 - The Learning Curve for Pelvic Fixation with the Bedrock Technique Nathan R. Hendrickson, MD, MS, University of Minnesota
2:46 pm-2:50 pm	78 - Paraspinal Compartment Syndrome in the Active-Duty Population: A Case Series CPT Craig M. Johnson, DO, Madigan Army Medical Center Orthopaedic Surgery
2:50 pm-2:54 pm	224 - Operating Room Turnover Times for Spine Surgery CPT Dillon J. Macky, MD, Dwight D. Eisenhower Army Medical Center
2:54 pm-3:00 pm	Discussion
Rapid Fire Session 3D – Basic Science	
2:00 pm-2:04 pm	320 - Titanium Alloy Supports Robust Biofilm Growth: Assessing Implications for Orthopedic Implants CPT Siang C. Kua, MD, Dwight D. Eisenhower Army Medical Center
2:04 pm-2:08 pm	301 - Senescence Phenotype in Osteoarthritis May Lead to Novel Clinical Detection Johnny Huard, PhD, Steadman Philippon Research Institute
2:08 pm-2:12 pm	285 - Muscle ERRγ Overexpression Mitigates the Muscle Atrophy after ACL Injury Aiping Lu, MD, Steadman Philippon Research Institute
2:12 pm-2:16 pm	205 - Bone Loss following Burn Injuries: Preliminary Results of a Novel Murine Model <i>CAPT Patrick M. Wise, MD, University of California, Davis</i>
2:16 pm-2:20 pm	121 - Chondroprotective and Analgesic Effect of Natural and Synthetic Cannabinoids in Murine PTOA CPT Amy Thompson, MD, William Beaumont Army Medical Center
2:20 pm-2:24 pm	292 - Fisetin Treated Human Bone Marrow Aspirate Concentrate on Osteoarthritis Rats Haruki Nishimura, MD, PhD, Steadman Philippon Research Institute

he Relationship Between Cartilage Loading and Degeneration in steoarthritis 2. Smith, PhD, Steadman Philippon Research Institute
ystemic Senescence Levels can be Reduced by Senolytic Therapy a S. Bahney, PhD, Steadman Philippon Research Institute
argeting Muscle Cell Senescence in Dystrophin-/-/Utrophin-/- Knockout Mice Improves Muscle Histopathology and Enhances fass and Lifespan Gao, MD, PhD, Steadman Philippon Research Institute
ging Murine Model Exhibits Elevated Senescence and Delayed e Healing . G. Lind, BA, Steadman Philippon Research Institute
-Catenin mRNA Lipoplexes Promote Bone Healing in Murine ractures aura Nelson, MS, PhD, Steadman Philippon Research Institute
luence of a Threaded Implant Design and Manufacturing on attegration W. Polly, MD, University of Minnesota
ion
ment Break

Best of SOMOS – Award Presentations

Moderators: LCDR Marvin E. Dingle, MD, US Naval Hospital Okinawa, Japan MAJ Sean E. Slaven, MD, Walter Reed National Military Medical Center

3:15 pm-3:21 pm Founders' Award Abstract Presentation
 3:21 pm-3:27 pm Norman T. Kirk Award Abstract Presentation
 3:27 pm-3:33 pm Jamie Dianne Bulken-Hoover Memorial - Best Hand Paper Award
 3:33 pm-3:40 pm Discussion

Special Event – Speed Mentoring Session

4:00 pm - 5:00 pm *Panel TBD*

Panel Discussion 4 – Allgood Award Winners

5:00 pm - 6:15 pm Panel: COL (Ret) Mark P. Pallis, DO, Geisinger Musculoskeletal Institute

COL(Ret) James R. Ficke, MD, Johns Hopkins University CAPT Matthew T. Provencher, MD, The Steadman Phillipon

Clinic

Friday, December 8

6:30 am -12:00 pm Speaker Ready Area

6:30 am -12:00 pm **Meeting Registration**

7:00 am-8:00 am Service Breakouts

Concurrent Symposium 7 – Pediatrics

8:15 am-8:45 am Title TBD

Emily L. Niu, MD, Childrens National Hospital

8:15 am-8:45 am Title TBD

Zachary Stinson, MD, Nemours Children's Health

Concurrent General Session 7 – Pediatrics

Moderator: Emily L. Niu, MD, Childrens National Hospital

Zachary Stinson, MD, Nemours Children's Health

8:45 am-8:51 am 241 - Prospective Evaluation of Reduction Loss Following Pediatric Cast

Bivalving

CPT Daniel J. Cognetti, MD, Brooke Army Medical Center

8:51 am-8:57 am 308 - Post-Operative Pain Control for Pediatric Patients after Orthopaedic

Surgery

CPT Marcus Hoof, MD, San Antonio Military Medical Center

8:57 am-9:03 am 321 - Is Posterior Tibial Slope Increased in Pediatric and Adolescent

Patients with Tibial Spine Fracture? A Casecontrol Study

LCDR Nicholas P. Lopreiato, MD, Walter Reed National Military Medical

Center

9:03 am-9:09 am 165 - Combined Anterior Thoracic Vertebral Body Tethering and

Posterior Lumbar Tethering Results in Quicker Return to Sport and Activity Compared to Posterior Spinal Instrumented Fusion in Patients

with Adolescent Idiopathic Scoliosis

ENS Jacob F. Oeding, MS, Mayo Clinic Alix School of Medicine

9:09 am-9:15 am	Discussion
9:15 am-9:21 am	92 - Long Leg Cast vs. Hinged Knee Brace Immobilization After Surgical Treatment of Tibial Tubercle Fractures Stephanie Price, MD, MPH, UT Dell Medical School
9:21 am-9:27 am	233 - The Lambrinudi Triple Arthrodesis for Previously Untreated Clubfoot in Adolescents Joshua Chen, MD, Inspira Medical Center
9:27 am-9:33 am	211 - Patella Fractures in Children: Outcomes and Complications <i>Avani Chopra, Penn State College of Medicine</i>
9:33 am-9:39 am	220 - Idiopathic vs. Concomitant Sensory Processing Disorders in Pediatric Recurrent Toe-Walkers Taylor Zak, MD, Texas Scottish Rite Hospital for Children
9:39 am-9:45 am	Discussion
Concurrent Symposium 8 – Tumor	
8:15 am-8:45 am	Title TBD Samer Attar, MD, Northwestern University
Concurrent General Session 8 – Tumor Moderator: Samer Attar, MD, Northwestern University	
8:45 am-8:51 am	231 - Outcomes of a Novel Osseointegration Device for Transfemoral Amputation: A Prospective Case Series CDR Daniel C. Allison, MD, MBA, Cedars-Sinai Medical Center
8:51 am-8:57 am	79 - Does Diagnostic Imaging in Trauma Patients Increase the Probability Cancer? LT Kyle P. Messer, DO, Walter Reed National Military Medical Center
8:57 am-9:03 am	154 - Oncologic Lower Extremity Intercalary Allograft Reconstruction: Plates vs Nails CPT Brooke Kowalski, MD, Madigan Army Medical Center
9:03 am-9:09 am	303 - Midfoot Instability Following Sarcoma Resection: A Novel Technique to Facilitate Functional Limb Salvage CPT Rachel J. Milam, MD, Madigan Army Medical Center

9:09 am-9:15 am Discussion

9:15 am-9:21 am	236 - Ewing Sarcoma of Bone in the Pediatric Population: Predictors of Survival within the United States CPT Matthew E. Wells, DO, William Beaumont Army Medical Center
9:21 am-9:27 am	232 - Reconstruction of a Massive Hemipelvic Defect with a Novel Custom Pelvic Endoprosthesis CDR Daniel C. Allison, MD, MBA, Cedars-Sinai Medical Center
9:27 am-9:33 am	307 - Use of Intraoperative Laser Angiography in Pediatric Van Nes Rotationplasty CPT Alec C. Egan, MD, MS, Madigan Army Medical Center
9:33 am-9:39 am	20 - Lateral Hinge Screw Effect for Medial Opening Wedge HTO in Sawbones Model Andrew Wright, Medstar Health Research Institute
9:39 am-9:45 am	Discussion
9:45 am-10:00 am	Refreshment Break

Special Presentation 2 - Nutrition

10:00 am-10:30 am Title TBD

Nathan R. Hendrickson, MD, MS, University of Minnesota

Symposium 9 - Spine

10:30 am-10:15 am Title TBD

Christopher K. Kepler, MD, MBA, Rothman Institute

10:15 am-11:00 am Title TBD

Arjun Sebastian MD, MS, Mayo Clinic

General Session 9 – Spine

Moderators: Christopher K. Kepler, MD, MBA, *Rothman Institute* Arjun Sebastian MD, MS, *Mayo Clinic*

11:00 am-11:06 am 274 - Low Back Pain Risk is Associated with Spinal, Pelvic and Lower

Limb Pathologies

Capt Galina Cohen-Shapiro, MD, PhD, Israel Defense Forces

11:06 am-11:12 am 25 - Aborted AIS Spinal Fusion due to Persistent Loss of IONM: Which

Patients are at Greatest Risk?

CPT Connor Zale, MD, Tripler Army Medical Center

11:12 am-11:18 am	62 - Meta-Analysis Comparing CDA vs. ACDF in Patients with Preoperative Kyphosis LT Clare E. Griffis, MS, MD, Naval Medical Center Portsmouth
11:18 am-11:24 am	32 - Direct Electrical Stimulation Assessment of Pedicle Screws in Pediatric Spinal Deformities Capt Jack McKeon, MD, Ohio State University
11:24 am-11:30 am	Discussion
11:30 am-11:36 am	3 - Biomechanical Analysis of a Modified Triangular Osteosynthesis Technique CAPT Wyatt D. Vander Voort, MD, University of California, Davis
11:36 am-11:42 am	103 - Sacropelvic Fixation with Porous Fusion/Fixation Screws: A Retrospective Review Nathan R. Hendrickson, MD, MS, University of Minnesota
11:42 am-11:48 am	327 - Retroperitoneal Anatomy in Supine, Prone, and Lateral Lumbar Spine MRIs CPT Gabriel Mason, MD, Brooke Army Medical Center
11:48 am-11:54 am	297 - Shoulder or Spine? Patterns in Surgical Intervention for Patients Treated for Both Cervical Radiculopathy and Shoulder Pathology LT Jeremy Tran, MD, Walter Reed National Military Medical Center
11:54 am-12:00 pm	Discussion

2023 SOMOS E-Poster Presentations

ADULT RECONSTRUCTION

- 41 Patient Reported Outcomes Measures in THA/TKA Randomized Controlled Trials LT Vivek M. Abraham, MD, Naval Medical Center Portsmouth
- 177 30-Day Perioperative Morbidity and Mortality After Elective Arthroplasty During COVID LCDR Daniel J Enriquez, MD, Naval Medical Center Portsmouth
- 18 Low Volume Total Joint Arthroplasty at Surgeon and Hospital Level in the Military Health System

MAJ Peter Formby, MD, Carl R Darnall Army Medical Center

- 33 Comparing Debridement Techniques in Revision Total Knee Arthroplasty CPT Joshua A. Hansen, MD, William Beaumont Army Medical Center
- 88 Analyzing the Risk of Complications After Total Hip Arthroplasty in Patients Taking Bone-Density-Reducing Medications

ENS Emile-Victor Kuyl, BS, George Washington University School of Medicine and Health Sciences

89 - Which Oral Drugs Associated with Adverse Effects on Bone Mineral Density Demonstrate Worse Total Knee Arthroplasty Implant-Related Complications ENS Emile-Victor Kuyl, BS, George Washington University School of Medicine and Health Sciences

FOOT & ANKLE

194 - Workers Compensation Healthcare Resource Utilization Following Foot and Ankle Surgery

Capt Tyler M. Goodwin, MD, University of Tennessee Health Science Center Chattanooga

- 24 Outcomes of Primary Total Ankle Arthroplasty using a Revision Ankle System Capt George Graham, MD, OrthoCarolina Foot & Ankle Institute
- 268 An Analysis of Foot and Ankle Questions on the Orthopaedic In-Training Examination *CPT Trevor McBride, MD, Brooke Army Medical Center*

OTHER

- 59 Does Gamification Improve Patient Engagement and Adherence in Physical Therapy? Christopher G. Bacak, MD, William Beaumont Army Medical Center
- 230 Targeted Muscle Reinnervation To Treat The Painful Neuroma: A Solution When Radiofrequency Ablation Fails

CPT Rachel J. Milam, MD, Madigan Army Medical Center

201 - Waste Management and Resource Utilization in Orthopaedic Surgery CPT Wyatt A.R. Smith, MD, MPH, San Antonio Military Medical Center

PEDIATRICS

90 - Cost Analysis of Medial Epicondyle and Lateral Condyle Fractures: A TRUVEN Database Study

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

7 - Popliteal Deep Vein Thrombosis in a Pediatric Patient with Streptococcus Viridians Osteomyelitis

CPT Joshua A. Hansen, MD, William Beaumont Army Medical Center

PRACTICE MANAGEMENT/EDUCATION

197 - Factors Influencing Orthopedic Surgery Residents' Decision to Pursue Fellowship: A Survey Questionnaire

CPT Francesco Biolzi, DO, Eisenhower Army Medical Center

- 238 Social Media and Citations in Orthopaedic Surgery Literature Review Capt Zachary Bowers, DO, Brooke Army Medical Center
- 137 Orthopaedic Operating Room Fire Risks: FDA Database and Literature Review Capt David B. Carmack, MD, Brooke Army Medical Center
- 22 Army Military Treatment Facilities Rate Poorly when Compared to Local Civilian Centers MAJ Peter Formby, MD, Carl R. Darnall Army Medical Center
- 299 Comparative Efficacy of Virtual Reality in Orthopedic Surgery Training Across Specialties 2-LT Mireya Rahman, BSA, TCU Burnett School of Medicine
- 271 Deployment Effects on Patient Care and Physician Experience 2LT Lily Swope, BS, Uniformed Services University of Health Sciences

SHOULDER & ELBOW

- 215 Arthroscopic Suprapectoral Biceps Tenodesis Utilizing a Dual Suture Anchor Modified Mason-Allen Technique: An evaluation of 1-Year Clinical Outcomes *Capt Brett G. Brazier, DO, San Antonio Military Medical Center*
- 30 Outcomes of Tendon Transfers for Scapular Winging in Young Military Athletes CPT Brandon H. Chung, DO, Tripler Army Medical Center
- 173 Outcomes Following Pectoralis Major Rupture Repair in Active-Duty Members CPT Michael D. Czarnecki, DO, Tripler Army Medical Center

- 49 Gene Expression Analysis Reveals Differences in the Capsular Tissue of Patients with Anterior and Posterior Shoulder Instability LTC Joseph W. Galvin, DO, Madigan Army Medical Center
- 155 Intraobserver and Interobserver Reliability in Glenoid Track Measurement CPT Anthony J. Magee, MD, Tripler Army Medical Center
- 76 Patient Reported Outcomes and Rotator Cuff Strength After Rotator Cuff Repair CPT Austin McCadden, MD, Tripler Army Medical Center
- 333 Analysis of Commercial Payer's Policies for Shoulder Arthroplasty CPT Marc Nicholes, DO, William Beaumont Army Medical Center
- 134 Influence of Obesity on Outcomes Following Arthroscopic Rotator Cuff Repair CPT Franklin J. Powlan, MD, William Beaumont Army Medical Center
- 147 Glenoid Bone Loss in Unidirectional Shoulder Instability vs. Combined Shoulder Instability

CPT Annette Yoon, MD, William Beaumont Army Medical Center

SPINE

- 276 The Use of Traction for Adult Spine Deformity: A Systematic Review CPT Timothy H. Stocker-Downing, DO, Tripler Army Medical Center
- 293 Patterns in Treatment Practice for Nondisplaced Type II Odontoid Fractures LT Jeremy Tran, MD, Walter Reed National Military Medical Center

SPORTS INJURIES

- 107 Postoperative Infection Rates in Shoulder Arthroscopy Following Preoperative Topical Antimicrobials
- ENS Addison G. Cantor, BS, Naval Medical Center San Diego
- 262 Revision Hip Arthroscopy with Labral Reconstruction or Augmentation Demonstrate Favorable Patient Reported Outcomes: A Systematic Review LT Jack R Gagné, MD, NMRTU Groton
- 31 Outcomes and Technique for Reconstruction of Irreparable Pectoralis Major Tears LT Sennay Ghenbot, MD, Walter Reed National Military Medical Center
- 219 Inaccurate Citations are Prevalent within Orthopaedic Sports Medicine Literature CPT Daniel D. Homeier, MD, Brooke Army Medical Center
- 126 Suture Anchors vs. Bone Tunnels in Primary Patellar Tendon Repair

LT Vaughn Land, MD, Naval Medical Center Portsmouth

128 - Comparing Bone Tunnels and Suture Anchors in Quadriceps Tendon Repair LT Vaughn Land, MD, Naval Medical Center Portsmouth

214 - Active-Duty Retrospective Review in ACL Reconstruction: Quadriceps vs. Patellar Tendon

CPT Connor Venrick, MD, Tripler Army Medical Center

TRAUMA

315 - Estimated Prevalence of Limb Loss in the US in 2019 Kara Churovich, BS, MPH, Henry M. Jackson Foundation for the Advancement of Military Medicine

313 - Fibrin Glue Use in Periarticular Fixation CPT Cole Johnson, MD, William Beaumont Army Medical Center

98 - Injury Severity in Falls from Height CPT Michael M. Polmear, MD, William Beaumont Army Medical Center

TUMOR

21 - Recurrent Ganglion Cyst in the Lateral Portal following Knee Arthroscopy 2LT Rebecca McAllister, BS, Uniformed Services University

182 - Photodynamic Bone Stabilization Use in Upper Extremity Pathologic Fractures CPT Timothy H. Stocker-Downing, DO, Tripler Army Medical Center

235 - A Masquerading Hematoma Resulting in the Delayed Diagnosis of a Soft Tissue Sarcoma: A Case Report

CPT Matthew E. Wells, DO, William Beaumont Army Medical Center