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 27 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 20.75 AMA PRA Category 1 CreditsTM The Posters are 6.25 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

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

Moderator: LCDR Christoper H. Renninger, MD, Walter Reed National Military Medical

Center

7:20 am-7:35 am Prone to the Tibia: Top to Bottom

Lisa K. Cannada, MD, Novant Health

7:35 am-7:50 am Urban Ballistic Trauma - What do we Actually Know

Jason Strelzow, MD, University of Chicago

General Session 1 – Trauma

Moderators: Lisa K. Cannada, MD, Novant Health

Jason Strelzow, MD, University of Chicago

LCDR Christoper H. Renninger, MD, Walter Reed National Military Medical

Center

7:50 am-7:56 am 279 - SAVIT, a Novel Risk Score, Predicts Limb Salvage

MAJ Jefferson Lansford, 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

Moderator: COL (Ret) Roman Hayda, MD, Brown University

9:10 am-10:10 am Panel Discussion

Panel: Samer Attar, MD, Northwestern University CPT Valentin Rogozinskiy, MD, PhD, Armed Forces of Ukraine COL Yurii Yarmoliuk, MD, Armed Forces of Ukraine

Symposium 2 – Sports - Shoulder and Elbow

Moderator: Lt. Col. R. Judd Robins, MD, United States Air Force Academy

10:10 am-10:25 am Ulnar Collateral Ligament Injuries: Athletes to Active Duty

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

LT COL R. Judd Robins, MD, United States Air Force Academy

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

Moderators: LTC Kelly G. Kilcoyne, MD, Walter Reed National Military Medical Center

3:00 pm-4:00 pm Panel Discussion

Panel: CAPT Casey Sabbag, MD, OrthoCarolina

COL(Ret) Dean C. Taylor, MD, Duke University

LTC David J. Wilson, MD, Brooke Army Medical Center

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

Rapid Fire Session 1A - Shoulder & Elbow

Moderators: LCDR KJ Hippensteel, MD, Walter Reed National Military Medical Center

LTC Daniel J. Song, MD, Evans Army Community Hospital

4:20 pm-4:24 pm 116 - Subacromial Balloons vs. Debridement: A Dual-Armed Systematic

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

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		
Discussion		
223 - Risk Factors for Glenoid Bone Loss in the Setting of Posterior Glenohumeral Instability CPT Cole Patrick, MD, William Beaumont Army Medical Center		
123 - Posterior and Combined-Type Shoulder Instability: A Military Base's 10-Year Experience CPT Michael M. Polmear, MD, William Beaumont Army Medical Center		
143 - Treatment of Periprosthetic Humerus Fractures after Shoulder Arthroplasty: A Systematic Review Capt Patrick J. Tansey, MD, University of Texas Medical Branch		
164 - Outcomes of Treating On-Track and Off-Track Lesions with Open Latarjet CPT John N. Wary, MD, Tripler Army Medical Center		
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		
222 - Preoperative Mental Health Status Predicts Rotator Cuff Repair Outcomes CPT Dexter C. Allen, MD, University of Texas Medical Branch		
Discussion		
Rapid Fire Session 1B – Trauma Moderators: LCDR Michelle M. Gosselin, MD, Naval Medical Center San Diego		
57 - Detecting Traumatic Ankle Arthrotomies: CT Scan vs. Saline Load Test LT Thomas J. Berault, MD, Naval Medical Center Portsmouth		
131 - Traumatic Transradial Forearm Amputation Temporized with Extracorporeal Membrane Oxygenation (ECMO) <i>CPT Erik Hegeman, MD, Brooke Army Medical Center</i>		

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 Chelsea S. Bahney, PhD, Steadman Philippon Research Institute
4:51 pm-4:55 pm	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
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 Session 1C – Hand & Wrist Moderators: MAJ Christopher M. Daniels, MD, Keller Army Community Hospital

Moderators:	MAJ Christopher M. Daniels, MD, Keller Army Community Hospital MAJ Nicole M. Sgromolo, MD, Brooke Army Medical Center	
4:20 pm-4:24]	om 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 j	om 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	om 153 - Who Gets Scaphoid Surgery: Epidemiology of Scaphoid Fractures CPT Anthony N. Gavalas, MD, William Beaumont Army Medical Center	
4:32 pm-4:36	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	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 j	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	om Discussion	
4:47 pm-4:51	om 242 - Impact on Safety of Preoperative Ultrasound for CTR: A Case Series <i>Marin Smith, DPT, The Geneva Foundation</i>	S
4:51 pm-4:55 j	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	
4:55 pm-4:59	om 111 - Return to Duty Following Limb Salvage with Free Flap CPT Alexandria Murphy, MD, MS, Madigan Army Medical Center	
4:59 pm-5:03	213 - Predictors of Early Patient Initiated Contact After Carpal Tunnel Release LT Kevin O'Mary, DO, University of Texas Medical Branch *Presented by Jacob Harper, BS, 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 Session 1D – Practice Management & Misc. Moderators: LCDR Sean M. Wade, MD, Naval Hospital Jacksonville		
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, Evans Army Community Hospital *Presented by CPT Emily McDermott, 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 *Presented by Ian Meshay, 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

Symposium 3 – Foot and Ankle

Moderator: LTC Jerome M. Benavides, MD, MBA, Madigan Army Medical Center

7:00 am-7:15 am Title TBD

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

7:15 am-7:30 am Custom 3D Implants: When to Pull the Trigger

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

LTC Jerome M. Benavides, MD, MBA, Madigan Army Medical Center

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 *Presented by Xueqin Gao, MD, PhD

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 - Opioid 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

8:50 am-9:05 am **Business Meeting**

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

Panel Discussion 2 – Transition to Civilian Practice

Moderators: LTC (Ret) Jonathan F. Dickens, MD, Duke University Health

9:05 am-9:50 am Panel Discussion

Panel: CDR (Ret) James Bailey, MD, Ryu Hurvitz Orthopedic Clinic CPT Brendan T. Higgins, MD, MS, Concord Orthopaedics LTC Kurtis Kowalski, MD, Tennessee Orthopaedic Alliance

COL (Ret) Mark P. Pallis, DO, Geisinger Musculoskeletal Institute

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

Moderator: LTC Emily H. Shin, MD, Madigan Army Medical Center

9:50 am-10:05 am	Hybrid Extended FCR Approach for ORIF of the Distal Radius and Concurrent Prophylactic Carpal Tunnel Release A. Bobby Chhabra, MD, University of Virginia
10:05 am-10:20 am	Bridge Plating Across MCP and PIP Joints after Gunshot Wounds Jennifer M. Wolf, MD, PhD, University of Chicago
10:20 am-10:45 am	Break with Exhibitors
Moderators: A. Bol Jennife	Hand: Jamie Dianne Bulken-Hoover Memorial Hand Session bby Chhabra, MD, University of Virginia er M. Wolf, MD, PhD, University of Chicago Emily H. Shin, MD, Madigan Army Medical Center
10:45 am-10:51 am	142 - Postoperative pain and Opioid Use in Upper Extremity Orthopedic Surgery CPT Amy Thompson, MD, William Beaumont Army Medical Center
10:51 am-10:57 am	144 - Venous Thromboembolism and Postoperative Bleeding Rates in Upper Extremity Orthopedic Surgery <i>CPT Amy Thompson, MD, William Beaumont Army Medical Center</i>
10:57 am-11:03 am	314 - Ideal Imaging for Base of the 5th Metacarpal Fractures CPT Hannah N. Imlay, MD, Tripler Army Medical Center
11:03 am-11:09 am	Discussion
11:09 am-11:15 am	217 - Implementation of a Hand Training Curriculum in Junior Resident Education <i>CPT James D. Baker, MD, San Antonio Military Medical Center</i>
11:15 am-11:21 am	113- Bridge vs. Volar Plating Polytrauma Patients with Lower Extremity Fractures Frank Martinez, BS, Mayo Clinic
11:21 am-11:27 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
11:27 am-11:33 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

11:33 am-11:40 am Discussion

11:40 am-12:40 pm Focused Lunch Presentations-Pacira

Evolving the Osteoarthritis Knee Patient Experience: The Past,

Present, and Future

Yao-wen Eliot Hu, MD, MBA, RMSK, CIC, FAAFP

*CME Credit Not Available

12:40 pm-3:00 pm Scientific E-Poster Session

(Presenters will be available to answer questions)

Panel Discussion 3 – SOMOS & Diversity, Equity and Inclusion

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

3:00 pm-3:15 pm Modernized Allyship in the New Leadership Paradigm

Erica Taylor, MD, MBA, Duke University Medical Center

3:15 pm-4:00 pm Panel Discussion

Panel: Lisa K. Cannada, MD, Novant Health

CAPT Miles W.A. Fisher, MD, Brooke Army Medical Center LTC Jeanne Patzkowski, MD, San Antonio Military Medical

Center

Erica Taylor, MD, MBA, Duke University Medical Center

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

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

Moderators: LCDR Ashley B. Anderson, MD, Walter Reed National Military Medical Center

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	249 - Structured Orthopaedic Surgery Training in Theater Hospital Operations Replication CDR Chris Smith, MD, Naval Medical Center Portsmouth *Presented by LT Karolina A. Serhan, MD, Naval Medical Center Portsmouth
4:40 pm-4:45 pm	Discussion
4:45 pm-4:49 pm	266 - A Field Evaluation of Proprietary and Improvised Pelvic Binders Capt Thomas Howe, MBBS BSc, British Army
4:49 pm-4:53 pm	204 - Whole Body Vibration and Lower Back Pain: A Systematic Review of the Current Literature <i>Major Abigail Bainbridge, MBChB, BSC, Defence Medical Deanary</i>
4:53 pm-4:57 pm	70 - Medical Readiness Among U.S. Military Personnel Presenting for Orthopaedic Care Andrew MacGregor, PhD, MPH, Naval Health Research Center
4:57 pm-5:01 pm	290 - Hounsfield Units Predict Poor Bone Health Among Sex and Race 2LT Matthew M. McDonough, BS, Uniformed Services University of the Health Sciences
5:01 pm-5:05 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
5:05 pm-5:09 pm	247 - Quantitative Analysis of Condition Based Limited Duty on Musculoskeletal Conditions CDR Chris Smith, MD, Naval Medical Center Portsmouth
5:09 pm-5:15 pm	Discussion
Moderators: CDR.	2B – Sports Medicine J. Imani Dupree, MD, <i>Naval Health Clinic Annapolis</i> Adam Pickett, MD, <i>Fort Belvoir Community Hospital</i>

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

4:20 pm-4:24 pm

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 *Presented by Ryan Price, MD
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, Navy Medicine Readiness and Training Unit 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	31 - Outcomes and Technique for Reconstruction of Irreparable Pectoralis Major Tears LT Sennay Ghenbot, MD, Walter Reed National Military Medical Center	
5:11 pm-5:15 pm	Discussion	
Rapid Fire Session 2C – Shoulder & Elbow Moderators: CDR (Ret) James Bailey, MD, Ryu Hurvitz Orthopedic Clinic MAJ Jared Wolfe, MD, Fort Belvoir		
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 <i>CPT Patrick W. Rooney, MD, Madigan Army Medical Center</i>	
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	

	*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 Session 2D – Pediatrics Moderators: LCDR Vanna Rocchi, DO, Naval Medical Center, Portsmouth LCDR Kimberly Spahn, MD, Naval Medical Center San Diego		
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	

LTC Joseph W. Galvin, DO, Madigan Army Medical Center

	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

Symposium 5 – Sports Knee and Hip

Moderator: LTC David J. Tennent, MD, Evans Army Community Hospital

7:00 am-7:15 am Evolution of Hip Arthroscopy and Innovation in Treatment of Hip Disorders

Marc J. Philippon, MD, The Steadman Clinic and Steadman Philippon Research Institute

7:15 am-7:30 am Titles TBD CAPT (Ret) Matthew T. Provencher, MD, MBA, The Steadman Clinic

General Session 5 – Sports Knee and Hip

Moderators: Marc J. Philippon, MD, *The Steadman Clinic and Steadman Philippon Research Institute*CAPT (Ret) Matthew T. Provencher, MD, MBA, *The Steadman Clinic*LTC David J. Tennent, MD, *Evans Army Community Hospital*

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
*Presented by LT Valentina Ramirez, MD

7:36 am-7:42 am

262 - Revision Hip Arthroscopy with Labral Reconstruction or
Augmentation Demonstrate Favorable Patient Reported Outcomes: A
Systematic Review

LT Jack R. Gagné, MD, Navy Medicine Readiness and Training Unit

Groton

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

CDT For the MCD of the Action of Military MCD of the Action of MCD of the Action of Military MCD of the Action of MCD of the Acti

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 4 – Sports Knee and Hip Challenging Case Debate

Moderator: LTC David J. Tennent, MD, Evans Army Community Hospital

8:30 am-9:15 am Panel Discussion

Panel: CDR (Ret) James Bailey, MD, Ryu Hurvitz Orthopedic Clinic

LTC Jeanne Patzkowski, MD, San Antonio Military Medical

Center

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

Clinic

9:15 am-9:30 am Refreshment Break

Symposium 6 - Adult Reconstruction Hip and Knee

Moderator: CAPT Robert W. Tracey, MD, Walter Reed National Military Medical Center

9:30 am-9:45 am Anterior THA: Technical Keys for the Best Outcomes

Joel Matta, MD, The Steadman Clinic

9:45 am-10:00 am Patient Specific Knee Alignment

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

CAPT Robert W. Tracey, MD, Walter Reed National Military Medical Center

10:00 am-10:06 am 125 - Management of Isolated Greater Trochanter Fractures associated

with Total Hip Arthroplasty

CPT Erik Hegeman, 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

*Presented by Chizitam Ibezim, MD, 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 LCDR 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 LCDR 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 *Presented by LCDR Ashton H. Goldman, 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 MAJ Joseph H. Dannenbaum IV, MD, Madigan Army Medical Center Moderators:

LCDR Ashton H. Goldman, MD, Naval Medical Center Portsmouth

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	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
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 Moderators: LTC Adam Pickett, MD, Fort Belvoir Community Hospital				
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 Ryan J. Whalen, BS, The Steadman Clinic			
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 *Presented by Capt Mikalyn T. DeFoor, 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 CPT Christian Cruz, MD, Tripler Army Medical Center
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 Repair Capt Tyler M. Goodwin, MD, University of Tennessee Health Science Center Chattanooga
2:54 pm-3:00 pm	Discussion
	3C – Spine Bryan K. Lawson, MD, <i>Brooke Army Medical Center</i> Alfred J. Pisano, MD, <i>Walter Reed National Military Medical Center</i>
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 <i>CPT Craig M. Johnson, DO, Madigan Army Medical Center Orthopaedic Surgery</i>		
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 Moderators: LCDR Ashley B. Anderson, MD, Walter Reed National Military Medical Center LTC Elizabeth M. Polfer, MD, Memorial Sloan Kettering Cancer Center			
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
2:24 pm-2:30 pm	Discussion
2:30 pm-2:34 pm	200 - The Relationship Between Cartilage Loading and Degeneration in Knee Osteoarthritis Colin R. Smith, PhD, Steadman Philippon Research Institute
2:34 pm-2:38 pm	302 - Systemic Senescence Levels can be Reduced by Senolytic Therapy Chelsea S. Bahney, PhD, Steadman Philippon Research Institute
2:38 pm-2:42 pm	260 - Targeting Muscle Cell Senescence in Dystrophin-/-/Utrophin-/-Double Knockout Mice Improves Muscle Histopathology and Enhances Bone Mass and Lifespan Xueqin Gao, MD, PhD, Steadman Philippon Research Institute
2:42 pm-2:46 pm	296 - Aging Murine Model Exhibits Elevated Senescence and Delayed Fracture Healing Dane R. G. Lind, BA, Steadman Philippon Research Institute
2:46 pm-2:50 pm	339 - β-Catenin mRNA Lipoplexes Promote Bone Healing in Murine Tibia Fractures <i>Anna Laura Nelson, MS, PhD, Steadman Philippon Research Institute</i>
2:50 pm-2:54 pm	53 - Influence of a Threaded Implant Design and Manufacturing on Osseointegration David W. Polly, MD, University of Minnesota
2:54 pm-3:00 pm	Discussion
3:00 pm-3:15 pm	Refreshment 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

309 - Surgeon Experience Impact on Complications after Severe Open

Tibial Fractures

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

Center

3:21 pm-3:27 pm Norman T. Kirk Award

64 - ERSA vs. MTF: Comparing Efficiency in Military Total Joint

Arthroplasty

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

3:27 pm-3:33 pm Jamie Dianne Bulken-Hoover Memorial - Best Hand Paper Award

218 - Second Metacarpal Cortical Percentage Predicts Loss of Distal

Radius Reduction

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

3:33 pm-3:40 pm Discussion

Panel Discussion 5 – Allgood Award Winners

Moderator: COL Daniel J. Stinner, MD, PhD, Vanderbilt University Medical Center

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

3:40 pm-3:50 pm Introduction of the Allgood Panel

3:50 pm-4:50 pm Panel: COL(Ret) James R. Ficke, MD, Johns Hopkins University

COL (Ret) Mark P. Pallis, DO, Geisinger Musculoskeletal Institute

CAPT Matthew T. Provencher, MD, The Steadman Clinic

COL(Ret) Dean C. Taylor, MD, Duke University

Special Event – Speed Mentoring Session (Colorado Ballroom)

Moderator: LCDR Sarah Nelson, MD, MS, Walter Reed National Military Medical Center

LCDR Nicholas Perry, MD, Naval Medical Center San Diego

5:00 pm - 6:00 pm *Speakers TBD*

Friday, December 8

7:00 am-8:00 am Service Breakouts

Concurrent Symposium 7 – Pediatrics

Moderator: LCDR Vanna Rocchi, DO, Naval Medical Center, Portsmouth

8:15 am-8:45 am Pediatric and Adolescent ACL: What's New in Reconstruction, Repair,

and Augmentation

Emily L. Niu, MD, Childrens National Hospital

8:15 am-8:45 am Osteochondritis Dessicans of the Knee: Recommendations for Today's Adolescent Athletes

Stephanie Pearce, MD, Nemours Children's Health

Concurrent General Session 7 – Pediatrics

Moderator: Emily L. Niu, MD, *Childrens National Hospital* Stephanie Pearce, MD, *Nemours Children's Health*

LCDR Vanna Rocchi, DO, Naval Medical Center, Portsmouth

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

Avani Chopra, Penn State College of Medicine

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

Moderator: LTC Elizabeth M. Polfer, MD, Memorial Sloan Kettering Cancer Center

8:15 am-8:45 am Compressive Osseointegration for Endoprosthetic Reconstruction Samer Attar, MD, Northwestern University

Concurrent General Session 8 – Tumor

Moderator: Samer Attar, MD, Northwestern University

LTC Elizabeth M. Polfer, MD, Memorial Sloan Kettering Cancer Center

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

of 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

*Presented by Courtney Lavin, MD, Madigan Army Medical Center

Orthopaedic Surgery

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

Moderator: TBD

10:00 am-10:30 am Title TBD

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

Symposium 9 - Spine

Moderator: MAJ Donald R. Fredericks, MD, Walter Reed National Military Medical Center

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

MAJ Donald R. Fredericks, MD, Walter Reed National Military Medical Center

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

LCDR 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 <i>CPT Gabriel Mason, MD, Brooke Army Medical Center</i>
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

Station A

ADULT RECONSTRUCTION

41 - Patient Reported Outcomes Measures in THA/TKA Randomized Controlled Trials LT Vivek M. Abraham, MD, Naval Medical Center Portsmouth *Presented by LCDR Ashton H. Goldman, 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

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

TRAUMA

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

Station B

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

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

Station C

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

107 - Postoperative Infection Rates in Shoulder Arthroscopy Following Preoperative Topical Antimicrobials

ENS Addison G. Cantor, BS, Naval Medical Center San Diego

- 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
- 304 Minimum 5-year Outcomes Following Primary Anterior Cruciate Ligament Repair *Peter J. Millett, MD, MScThe Steadman Clinic*
- 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 versus Combined Shoulder Instability

CPT Annette Yoon, MD, William Beaumont Army Medical Center

Station D

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

SPORTS INJURIES

219 - Inaccurate Citations are Prevalent within Orthopaedic Sports Medicine Literature CPT Daniel D. Homeier, MD, Brooke Army Medical Center *Presented by CPT Mason Adams, DO

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 versus Patellar Tendon

CPT Connor Venrick, MD, Tripler 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