

**SOMOS Scientific Program
December 12-16, 2022
Fairmont Scottsdale Princess
Scottsdale, Arizona**

Monday, December 12

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

12:00 pm-8:00 pm Meeting Registration

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

5:30 pm-6:30 pm **Sponsor Reception**

6:30 pm-9:00 pm **Welcome Reception with Exhibitors**

Tuesday, December 13

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

6:30 am-8:00 am *Registered Guests' Breakfast*

6:30 am-12:45 pm **Technical Exhibits, Coffee Breaks and Daily Drawing**

6:30 am-3:00 pm Meeting Registration

Opening Ceremony

Moderators: Col Joseph J. Stuart, MD, *Nellis Air Force Base*
 Maj Travis J. Dekker, MD, *United States Air Force Academy*
 Maj Bryan K. Lawson, MD, *San Antonio Military Medical Center*

7:00 am-7:10 am Color Guard

7:00 am-7:10 am Report of SOMOS President
 Col Joseph J. Stuart, MD, Nellis Air Force Base

Symposium 1: Jamie Dianne Bulken-Hoover Memorial Hand Session

Moderator: Jennifer M. Wolf, MD, PhD, *University of Chicago*
 CDR Scott Tintle, MD, *Walter Reed National Military Medical Center*

7:20 am-7:40 am Current Trends on Treatment of Ballistic Injuries of the Upper Extremity
 Jennifer M. Wolf, MD, PhD, University of Chicago

- 7:40 am-7:45 am 96 - Arthroplasty vs. ORIF for Radial Head Fractures: A 19-Year Study
CPT Cole Patrick, MD, William Beaumont Army Medical Center
- 7:45 am-7:50 am 118 - Open Phalanx Fractures: Surgery Not Correlated with Reduced Infection Rate
CPT Cole Johnson, MD, William Beaumont Army Medical Center
- 7:50 am-7:55 am 158 - Early vs. Delayed Targeted Muscle Reinnervation (TMR): Why wait?
Capt Samuel L. Posey, MD, Carolinas Medical Center
- 7:55 am-8:00 am 15 - Surgical Outcomes for Arthroscopic Olecranon Bursectomy in the Treatment of Recalcitrant Olecranon Bursitis
Jeffrey Simpson, BS, University of Central Florida College of Medicine
- 8:00 am-8:10 am Discussion
- 8:10 am-8:30 am *Break with Exhibitors*

Concurrent Session 1A: ICL – Sports

- 8:35 am-9:25 am My Approach to Complex Meniscus Tears
Panel: *Mark D. Miller, MD, University of Virginia*
LCDR Jennifer Smith, MD, Balboa Naval Medical Center
Armando F. Vidal, MD, University of Colorado Sports Medicine
CDR Robert A. Waltz, MD, United States Naval Academy

Concurrent Session 1B: ICL – Trauma

Moderator: Maj R. Bradley Kessler, MD, *Brooke Army Medical Center*

- 8:35 am-9:25 am Management of Distal Femur Fractures
Eben A. Carroll, MD, Wake Forest Baptist Health

Concurrent Session 1C: ICL – Spine

- 8:35 am-9:25 am Management of Type 2 Odontoid Fracture in the Elderly (A Point Counterpoint Discussion)
Panel: *Col Kenneth Bode, MD, San Antonio Military Medical Center*
Arjun Sebastian, MD, MS, Mayo Clinic
Maj Kartik Shenoy, MD, Nellis Air Force Base
Alexander Vaccaro, MD, PhD, MBA, Rothman Orthopaedic Institute
LCDR Scott C. Wagner, MD, Walter Reed National Military Medical Center

Concurrent Session 2A: ICL – Hand

9:30 am-10:20 am Complex Elbow Trauma in the Young Active-Duty Patient
Panel: *Lt Col (Ret) Joseph T. Gower, MD, Hospital for Special Surgery*
Robert Hotchkiss, MD, Johns Hopkins University School of Medicine
LTC Kelly G. Kilcoyne, MD, Walter Reed National Military Medical Center
Genevieve M. Rambau, MD, Eglin Air Force Base

Concurrent Session 2B: ICL – Oncology

Moderator: COL Joseph F. Alderete Jr., MD, *Brooke Army Medical Center*

9:30 am-10:20 am Oncologic Sacral Resections
Peter Rose, MD, Mayo Clinic

Concurrent Session 2C: ICL – Foot & Ankle

Moderator: CDR Thomas Douglas, MD, *Portsmouth Naval Medical Center*

9:30 am-10:20 am Foot and Ankle Injuries in the Active Patient: A Case Discussion Panel
Thomas Clanton, MD, The Steadman Clinic
Stanley Graves, MD, Honor Health, Scottsdale, AZ

10:25 am-10:45 am Break with Exhibitors

Concurrent Session 3A: ICL – Trauma

Moderator: Maj R. Bradley Kessler, MD, *San Antonio Military Medical Center*

10:50 am-11:50 am A Potpourri of Hip Fractures
Jennifer Bruggers, MD, Wellstar Orthopaedic Trauma Surgery
Eben A. Carroll, MD, Wake Forest Baptist Health

Concurrent Session 3B: ICL – Sports Medicine

10:50 am-11:50 am Considerations to Primary Ligamentous Knee Reconstructive Procedures
Panel: *CDR James Bailey, MD, Naval Medical Center San Diego*
Brendan T. Higgins, MD, MS, Concord Orthopaedics
Mark D. Miller, MD, University of Virginia
Armando F. Vidal, MD, University of Colorado Sports Medicine

Concurrent Session 3C: ICL – Hand

10:50 am-11:50 am Common Hand Encounters
Panel: *Lt Col (Ret) Joseph T. Gower, MD, Seaview Orthopaedics*

Robert Hotchkiss, MD, Johns Hopkins University School of Medicine
CDR Scott Tintle, MD, Walter Reed National Military Medical Center
Jennifer M. Wolf, MD, PhD, University of Chicago

General Session 1 – Allgood Winners Panel Discussion

Moderator: Col Joseph J. Stuart, MD, *Nellis Air Force Base*

11:55 am-12:40 pm Panel: *COL Edward Arrington, MD*
CAPT Dana C. Covey, MD
COL (Ret) William C. Doukas, MD
COL (Ret) Mark P. Pallis, DO
Col (Ret) John M. Tokish, MD
(Zoom?) Brig Gen (Ret) Michael Yaszemski, MD

12:45 pm -1:45 pm **Focused Lunch Presentations**

Breakout Presentations A – Adult Reconstruction

2:00 pm-2:05 pm 160 - Impact of Pre-Operative COVID-19 Vaccination on Knee Replacement Outcomes
CPT Erickson Andrews, MD, Henry Ford Health System

2:05 pm-2:10 pm 131 - The Lymphocyte Transformation Test for Evaluation of Painful Total Knee Arthroplasty: A Systematic Review
Capt Brett G. Brazier, DO, San Antonio Military Medical Center

2:10 pm-2:15 pm 217 - Estimation of Primary Total Knee Arthroplasty Implant Size Using Shoe Size
LCDR John S. Donoughe, DO, MPAS, Naval Medical Center San Diego

2:15 pm-2:20 pm 102 - Disposition after Unicompartmental Knee Arthroplasty: An Analysis of Discharge Outcomes, and Identification of Risk Factors for Placement, Adverse Events, and Reoperation
COL (Ret) Tad Gerlinger, MD, Rush University Medical Center

2:20 pm-2:25 pm 103 - Early Clinical and Patient-Reported Outcomes for a Unicompartmental Knee System
COL (Ret) Tad Gerlinger, MD, Rush University Medical Center

2:25 pm-2:30 pm 149 - Quality of Life and Cost Utility Analysis of Femoral Osseointegration
Major Charles Handford, MBChB (Hons), Royal Centre for Defence Medicine

2:30 pm-2:35 pm	197 - Same Mortality in Robotic Bilateral Simultaneous TKA vs. Conventional TKA <i>CPT Matthew J. Kinnard, MD, Walter Reed National Military Medical Center</i>
2:35 pm-2:40 pm	227 - TKA and THA after Lower Extremity Amputation in the Military <i>LT Alexander D. Li, MD, Naval Medical Center Portsmouth</i>
2:40 pm-2:45 pm	121 - Gender and Outcomes in Arthroplasty: Systematic Review on Healthcare Disparities <i>Capt Jack McKeon, MD, Ohio State University</i>
2:45 pm-2:50 pm	222 - Risk Factors for Failure to Launch in Outpatient Arthroplasty Pathway <i>CPT Matthew Nowak, DO, Madigan Army Medical Center</i>
2:50 pm-2:55 pm	167 - The Impact of Preoperative Joints Education Classes on Arthroplasty Outcomes <i>Tahsin Rahman, MD, Henry Ford Health System</i>
2:55 pm-3:00 pm	240 - Accuracy of Robotic-Assisted and Convention Acetabular Cup Placement in Total Hip Arthroplasty <i>CPT Patrick W. Rooney, MD, Madigan Army Medical Center</i>
3:00 pm-3:05 pm	169 - Dose Dependent Relationship Between Intraoperative Opioids and Postoperative Refill Requests <i>Jonathan H. Shaw, MD, Henry Ford Health System</i>
3:05 pm-3:10 pm	171 - How Varying Extents of Deformity Correction During Robotic UKA impact PROMS <i>Jonathan H. Shaw, MD, Henry Ford Health System</i>
3:10 pm-3:15 pm	74 - Preoperative CRP and ESR as Predictive Markers for Prosthetic Joint Infection <i>2LT Josiah Snowden, BS, TCU School of Medicine</i>
3:15 pm-3:20 pm	69 - Outcomes of Late Manipulation Under Anesthesia after Total Knee Arthroplasty <i>Matthew T. Weintraub, BS, Rush University Medical Center</i>
3:20 pm-3:30 pm	Discussion

Breakout Presentations B – Shoulder & Elbow

2:00 pm-2:05 pm	93 - The Epidemiology of Sports-Related Sternoclavicular Joint Dislocations in the US
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Christopher G. Bacak, William Beaumont Army Medical Center

- 2:05 pm-2:10 pm 36 - Novel All-Suture Button Has Similar Biomechanical Performance to Metal Suspensory Button for Onlay Subpectoral Biceps Tenodesis
CPT Donald Colantonio, MD, Walter Reed National Military Medical Center
- 2:10 pm-2:15 pm 104 - Return to Sport after Arthroscopic Remplissage: Systematic Review and Meta-Analysis
William H. Davis, PharmD, William Beaumont Army Medical Center
- 2:15 pm-2:20 pm 126 - Obesity Negatively affects Outcomes following Arthroscopic Rotator Cuff Repair
CPT Austin Fares, MD, William Beaumont Army Medical Center
- 2:20 pm-2:25 pm 127 - Outcomes after Arthroscopic Rotator Cuff Repairs with the Overweight Condition
CPT Austin Fares, MD, William Beaumont Army Medical Center
- 2:25 pm-2:30 pm 5 - Time to Return to Running following Arthroscopic Shoulder Surgery
LTC Joseph W. Galvin, DO, Madigan Army Medical Center
- 2:30 pm-2:35 pm 84 - Revision Latarjet after failed Bankart: A Systematic Review
CPT Joshua A. Hansen, MD, William Beaumont Army Medical Center
- 2:35 pm-2:40 pm 77 - Shoulder Instability is More Common in Young Total Shoulder Arthroplasty
LT Jonathan K. Kallevang, DO, Naval Medical Center Portsmouth
- 2:40 pm-2:45 pm 242 - Techniques and Outcomes for Shoulder Arthrodesis: A Systematic Review
CPT Andrew J. Lopez, MD, Tripler Army Medical Center
- 2:45 pm-2:50 pm 51 - The Natural History of Nonoperative Treatment of Posterior Glenohumeral Instability
Patrick K. Mescher, MD, Walter Reed National Military Medical Center
- 2:50 pm-2:55 pm 229 - Biceps Tenodesis in Younger Than 30-Year-Old Military Patients: 10-Year Follow-Up
LT Conor F. McCarthy, MD, Walter Reed National Military Medical Center
- 2:55 pm-3:00 pm 86 - Quality Assessment of Prospective Cohort and Randomized Controlled Trials Evaluating Surgical Treatment of Proximal Humerus Fractures: A Systematic Review

CPT Timothy Murphy, MD, Walter Reed National Military Medical Center

**Presented by DesRaj M. Clark, MD*

- 3:00 pm-3:05 pm 97 - Return to Sport after Arthroscopic HAGL Repair: A Systematic Review
CPT Tyler Nicholson, MD, William Beaumont Army Medical Center
- 3:05 pm-3:10 pm 154 - Coracoid and Glenoid Size in Pediatric and Adolescent Patients
Capt Samuel L. Posey, MD, Carolinas Medical Center
- 3:10 pm-3:15 pm 247 - Commercial Payers Use Low Level Evidence to Substantiate Policies
Braxten Ramirez, MD, William Beaumont Army Medical Center
- 3:15 pm-3:30 pm Discussion

Breakout Presentations C - Trauma

- 2:00 pm-2:05 pm 256 - Cost Analysis and Functional Outcome of Patella Fracture Fixation Strategies
Ahmad Alnasser, BA, Massachusetts General Hospital
- 2:05 pm-2:10 pm 54 - Hip Fracture Surgical Safety in Patients on Direct-Acting Oral Anticoagulants
Fitzgerald C. Anazor, MBBS, East Kent Hospitals University NHS Foundation Trust
- 2:10 pm-2:15 pm 173 - Intravenous Cefazolin Achieves Sustained High Interstitial Concentrations in Injured Human Extremities
Capt Taylor J. Bates, MD, San Antonio Military Medical Center
- 2:15 pm-2:20 pm 257 - Persistent Racial Disparities in Complications and Delay to Surgery in Hip Fracture Patients: Data from the ACS NSQIP Targeted Hip Fracture Series 2016-2020
CAPT Mark Evans Fleming, DO, Harvard Medical School Orthopedic Trauma Initiative
- 2:20 pm-2:25 pm 188 - Computed Tomography (CT) Scan Detection of Intra-Articular Air in the Ankle Joint
LCDR John S. Donoughe, DO, MPAS, Naval Medical Center San Diego
- 2:25 pm-2:30 pm 214 - Biomechanical and Histological Assessment of Bone-Adhesive in Sheep Femur Osteotomy
Brittany M. McDonough, MS, RevBio

2:30 pm-2:35 pm	122 - Pubic Root vs. Anterior Column Fractures: Common Misdiagnoses by Radiologists <i>Capt Jack McKeon, MD, Ohio State University</i>
2:35 pm-2:40 pm	85 - Biomechanical Comparison of Femoral Neck Screw versus Transversely Oriented Proximal Screw in Long Femoral Plating Constructs <i>CPT Timothy Murphy, MD, Walter Reed National Military Medical Center</i> <i>*Presented by, LT Jeremy Tran, MD</i>
2:40 pm-2:45 pm	65 - Injuries Sustained Crossing the U.S.-Mexico Border <i>CPT Michael M. Polmear, MD, William Beaumont Army Medical Center</i>
2:45 pm-2:50 pm	66 - Tibial Plafond Fractures Sustained Crossing the U.S.-Mexico Border <i>CPT Michael M. Polmear, MD, William Beaumont Army Medical Center</i>
2:50 pm-2:55 pm	80 - Radial Head Fractures: Current Trends in Treatment and Outcome <i>CPT Kayleigh Renfro, MD, William Beaumont Army Medical Center</i>
2:55 pm-3:00 pm	76 - Provider Treatment Recommendations for Childbirth Following Pelvic Ring Injuries <i>LCDR Jasmine A. Scott, MD, JD, Naval Medical Center San Diego</i>
3:00 pm-3:05 pm	193 - Using the Scratch Collapse Test to Detect Subclinical Peroneal Nerve Palsy in the Hospitalized Patient in Order to Prevent Falls <i>CPT Matthew E. Wells, DO, William Beaumont Army Medical Center</i>
3:05 pm-3:10 pm	50 - Femur Fractures in Burn Patients: A 22 Year Retrospective Analysis <i>CAPT Patrick M. Wise, MD, University of California, Davis</i>
3:10 pm-3:30 pm	Discussion
6:30 pm-9:00 pm	Commander's Cup Event -TBD

Wednesday, December 14

12:00 am-11:59 pm	Speaker Ready Area
6:00 am-6:45 am	Commander's Cup Event – 5K Race
6:30 am-8:00 am	<i>Registered Guests' Breakfast</i>
6:30 am-12:25 pm	Technical Exhibits, Coffee Breaks and Daily Drawing

6:30 am-12:25 pm Meeting Registration

Concurrent Session 4A: Research – Sports

Moderators: LTC Kelly G. Kilcoyne, MD, *Walter Reed National Military Medical Center*
Col (Ret) John M. Tokish, MD, *Mayo Clinic, AZ*

7:00 am-7:20 am Primary Shoulder Dislocation - When I Pull the Trigger to Repair in the Active-Duty Patient
Col (Ret) John M. Tokish, MD, Mayo Clinic, AZ

7:20 am-7:25 am 18 - Pectoralis Major Repair Outcomes with Subgroup Analysis of Platelet-Rich Plasma Augmentation
MAJ (Ret) Justin J. Ernat, MD, University of Utah

7:25 am-7:30 am 159 - Posterior Shoulder Instability: A Systematic Review of Knotted versus Knotless Anchors
CPT Emily McDermott, MD, San Antonio Military Medical Center

7:30 am-7:35 am 111 - Simultaneous Arthroscopic Glenohumeral Stabilization and Microfracture in Active-Duty Military Patients
CPT John P. Scanaliato, MD, William Beaumont Army Medical Center

7:35 am-7:40 am 205 - MRI Volumetric Assessment of Rotator Cuff Injury to Predict Clinical Outcomes
Capt Mikalyn T. DeFoor, MD, Brooke Army Medical Center

7:40 am-7:45 am 4 - The Speed of Recovery: Arthroscopic Bankart Repair versus Open Latarjet
LTC Joseph W. Galvin, DO, Madigan Army Medical Center

7:45 am-7:50 am 6 - Arthroscopic Bankart Repair Recovers Faster than Arthroscopic Posterior Capsulolabral Repair
LTC Joseph W. Galvin, DO, Madigan Army Medical Center

Concurrent Session 4B: Research – Upper Extremity Trauma

Moderator: MAJ J. Banks Deal, MD, *Walter Reed National Military Medical Center*

7:00 am-7:05 am 236 - The Yield of Subsequent Radiographs During Nonoperative Treatment of Radial Head and Neck Fractures
CPT Vidushan Nadarajah, MD, SUNY Downstate Health Sciences University

7:05 am-7:10 am 199 - Posterior Interosseous Nerve Palsy in Patients with Rheumatoid Arthritis
2LT Brooke Kowalski, BS, Vanderbilt University School of Medicine

- 7:10 am-7:15 am 202 - MRI Analysis of the Radius of Curvature of the Elbow
Rachel J. Milam, MD, Madigan Army Medical Center
- 7:15 am-7:25 am Discussion
- 7:25 am-7:30 am 203 - Trends in Elbow Arthroscopy Among ABOS Part II Examinees
CPT Anthony N. Gavalas, MD, William Beaumont Army Medical Center
- 7:30 am-7:35 am 94 - Elbow Dislocations in the US: Epidemiology Before and During COVID-19
CPT Michael Baird, MD, William Beaumont Army Medical Center
**Presented by CPT Benjamin A. Nelson, MD*
- 7:35 am-7:40 am 223 - Implementation of a Hand Surgery Training and Education Platform
CPT Gabriel Mason, MD, Brooke Army Medical Center
- 7:40 am-7:50 am Discussion

Concurrent Session 4C: Research – Spine

Moderator: COL (Ret) Brett A. Freedman, MD, *Mayo Clinic*
 COL Kenneth Bode MD, *San Antonio Military Medical Center*
 Maj Kartik Shenoy, MD, *Nellis Air Force Base*

- 7:00 am-7:05 am 109 - Accuracy of Dermatomes in the Localization of Lumbar Disc Herniations: A Systematic Review
CPT Connor Zale, MD, Tripler Army Medical Center
- 7:05 am-7:10 am 114 - Motorized Hinged Operating Table Facilitated Sagittal Correction After Spinal Osteotomies Using Transforaminal Lumbar Interbody Fusion with Smith-Petersen Osteotomies (TLIF-SPO)
David W. Polly, MD, University of Minnesota
- 7:10 am-7:15 am 115 - Association between BMI and Non-Specific Recurrent Low Back Pain in over 600,000 Healthy Young Adults
1st Lieutenant Maya Nitecki, MD, Israel Defense Forces
- 7:15 am-7:25 am Discussion
- 7:25 am-7:30 am 152 - The Impact of Pre-Pregnancy Spinal Instrumentation on Rates of Low-Back Pain During Subsequent Pregnancy, Method of Delivery and Anesthetic Considerations
LT Karolina A. Serhan, MD, Naval Medical Center Portsmouth
- 7:30 am-7:35 am 113 - Prospective Time-Based Analysis of Screw Placement Using O-arm Navigation
David W. Polly, MD, University of Minnesota

7:35 am-7:40 am 249 - Follow-Up Rates for Spinal Epidural Abscess Patients: Treatment Plan Consideration
2LT Johnson Lay, BS, California University of Science and Medicine (CUSM-SOM)

7:40 am-7:50 am Discussion

7:55 am-8:15 am *Break with Exhibitors*

Concurrent Symposium 2A – Foot and Ankle

Moderator: MAJ Katherine Bedigrew, MD, *San Antonio Medical Center*
 Thomas Clanton, MD, *The Steadman Clinic*

8:20 am-8:40 am New Developments in Syndesmosis Management
Thomas Clanton, MD, The Steadman Clinic

8:40 am-8:45 am 260 - Metabolic Syndrome Increases Risk of Readmission and Complications in Operative Fixation of Pilon Fractures
Zachary Panton, Harvard Medical School Orthopedic Trauma Initiative

8:45 am-8:50 am 70 - Macrotraumatic Fractures of the Multisegmented Ankle-Foot Complex in Military Tactical Athletes: A Cohort Study
CDR John J. Fraser, PT, DPT, PhD, FACSM, Naval Health Research Center

8:50 am-8:55 am 33 - Return to Duty in Nonoperative vs. Mini-Open Achilles Repair
LT Alexander Lundy, MD, Walter Reed National Military Medical Center

8:55 am-9:00 am 179 - Achilles Tendon Ruptures in a Military Health System – the Return of Operative Intervention?
LT Daniel D. Johnson, MD, Naval Medical Center Portsmouth

9:00 am-9:10 am Discussion

Concurrent Symposium 2B – Tumor

Moderators: Kurt Weiss, MD, *University of Pittsburgh Medical Center*
 Lt Col Steven W. Thorpe, MD, *University of California, Davis*

8:20 am-8:40 am From Bench to Bovie: Musculoskeletal Oncology Translational Research. Turn It Up!
Kurt Weiss, MD, University of Pittsburgh Medical Center

8:40 am-8:45 am 72 - What are the Short-Term Infectious Complications in Amputees with Transdermal “Osseointegrated” Implants?

CPT Colin Harrington, MD, Walter Reed National Military Medical Center

- 8:45 am-8:50 am 218 - Orthopaedic Oncology Practice Patterns in the US Military
LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center
- 8:50 am-8:55 am 232 - Optimizing Below Knee Amputation Length Using a Ratio Versus an Absolute Value
Capt Gavin Mills, MD, Brooke Army Medical Center
- 8:55 am-9:00 am 63 - Immunohistochemistry in Giant Cell Tumor vs. Central Giant Cell Granuloma
CPT Connor Venrick, MD, Tripler Army Medical Center
- 9:00 am-9:10 am Discussion

Concurrent Symposium 3A – Total Joints

Moderator: Maj Fortune Egbulefu, MD, *Nellis Air Force Base*

- 9:15 am-9:35 am Unicompartmental Knee Arthroplasty in the Active Patient
COL (Ret) Tad Gerlinger, MD, Rush University Medical Center
- 9:35 am-9:40 am 79 - Can Surgeons Influence Length of Stay After UKA?
LT Laura Y. Lu, MD, Massachusetts General Hospital/Harvard Medical School
- 9:40 am-9:45 am 52 - Patient Experience with Remote Monitoring and App-based Rehabilitation Programs after Total Hip Arthroplasty
Maj Matthew W. Booth, MD, MSc, Washington University
- 9:45 am-9:50 am 53 - Pericapsular Nerve Group (PENG) Block Reduces Opiate Requirement in Patients Undergoing Total Hip Arthroplasty via Direct Anterior Approach
LT Kevin Taniguchi, MD, Naval Medical Center San Diego
- 9:50 am-9:55 am 132 - Socioeconomic Factors Affecting Outcomes in Total Knee and Hip Arthroplasty
Paul M. Alvarez, MD, Ohio State University Wexner Medical Center
- 9:55 am-10:05 am Discussion

Concurrent Symposium 3B – Spine

Moderator: Maj Bryan K. Lawson, MD, *San Antonio Military Medical Center*
Arjun Sebastian, MD, MS, *Mayo Clinic*

- 9:15 am-9:35 am Bone Health for the Bone Doctor
COL (Ret) Brett A. Freedman, MD, Mayo Clinic
- 9:35 am-9:40 am 251 - Cervical Disk Arthroplasty in the Active Duty Population
CPT Kyle S. Ardavanis, MD, Madigan Army Medical Center
- 9:40 am-9:45 am 13 - CRP-Albumin Ratio is Associated with Post-Treatment Complications in the Setting of Spinal Epidural Abscess
Maj Matthew H. Lindsey, MD, Mass General Brigham
- 9:45 am-9:50 am 133 - Radiographic Effect of Cage Subsidence on Neuroforamina after ACDF
Capt Miles W. A. Fisher, MD, Brooke Army Medical Center
- 9:50 am-9:55 am 8 - Cervical Sagittal Alignment Comparison between Laminoplasty and Laminectomy
Maj Matthew H. Lindsey, MD, Mass General Brigham
- 9:55 am-10:05 am Discussion

Concurrent Symposium 3C – Pediatrics

Moderator: MAJ Katherine Bedigrew, MD, *San Antonio Military Medical Center*

- 9:15 am-9:35 am Modern Treatments of External Fixation for Limb Deformity in Adolescents
Robert Fitch, MD, Duke University Medical Center
- 9:35 am-9:55 am Title TBD
Sara S. Van Nortwick, MD, Medical University of South Carolina

Sara S. Van Nortwick, MD, Medical University of South Carolina

- 9:55 am-10:05 am Discussion

10:10 am-10:30 am Break with Exhibitors

General Session 2 – The Real Risks of Radiation and How to Protect Yourself

Moderator: MAJ Katherine Bedigrew, MD, *San Antonio Military Medical Center*

- 10:35 am-11:15 am Radiation and Fertility Issues in Orthopaedics
Panel: *Lisa K. Cannada, MD, Jacksonville, FL*
Erin Keyser, MD, San Antonio Military Medical Center REI Specialist
Sara S. Van Nortwick, MD, Medical University of South Carolina

Concurrent Session 5A: ICL – Sports Medicine

11:20 am-12:20 pm The Unforgivable Compartment: Patellofemoral Pathology in the Athlete
Panel: *Thomas Hackett, MD, The Steadman Clinic*
Lt. Col. R. Judd Robins, MD, United States Air Force Academy
MAJ David J. Tennent, MD, Evans Army Community Hospital
Alison P. Toth, MD, Duke University Medical Center

Concurrent Session 5B: ICL – Trauma

11:20 am-12:20 pm Management of Pelvic Ring Injuries
Panel: *Michael J. Beltran, MD, University of Cincinnati College of Medicine*
James A. Blair Jr., MD, Medical College of Georgia at Augusta University
MAJ P. Christopher Johnson, MD, San Antonio Military Medical Center

Concurrent Session 5C: ICL – Total Joints

Moderator: Maj Fortune Egbulefu, MD, *Nellis Air Force Base*

11:20 am-12:20 pm Tips and Tricks of Primary Hip and Knee Arthroplasty
Panel: *Michael P. Bolognesi, MD, Duke University Medical Center*
COL (Ret) Tad Gerlinger, MD, Rush University Medical Center
Lt Col Robert Howarth, MD, United States Air Force Academy
Maj. David Vizzuraga, MD, San Antonio Medical Center

12:25 pm-1:25 pm **Focused Lunch Presentations**

Breakout Presentations A – Adult Reconstruction, Basic Science, Hand & Wrist and Total Knee

1:30 pm-1:35 pm 220 - Recent Trends in the Treatment of Distal Femur Fractures
CPT Tyler Nicholson, MD, William Beaumont Army Medical Center

1:35 pm-1:40 pm 166 - Impact of Social Determinants of Health on Outcomes Following Total Knee Arthroplasty
Tahsin Rahman, MD, Henry Ford Health System

1:40 pm-1:45 pm 81 - Reduction of Pullout Strength Resulting from Cutting Cortical Screws
Conor Garry Tyler M. Goodwin, MD, University of Tennessee Health Science Center Chattanooga

1:45 pm-1:50 pm 138 - Bone Metabolism in Response to the Marathon in 42 Recreational Runners
2LT Brooke Kowalski, BS, Vanderbilt University School of Medicine

1:50 pm-1:55 pm	117 - Augmentation of Infraspinatus Tendon Repair with a Bioengineered Electrospun Collagen-Based Device <i>CPT Thomas B. Lynch, MD, San Antonio Military Medical Center</i>
1:55 pm-2:00 pm	170 - Risk of Thermal Necrosis with Peri-Articular Calcium Phosphate Cement <i>CPT Dillon J. Macky, MD, Dwight D. Eisenhower Army Medical Center</i>
2:00 pm-2:10 pm	Discussion
2:10 pm-2:15 pm	228 - Assessing Stem Cells, Biomarkers, and Senescence in Fractionated Bone Marrow <i>Matthew Vopat, Steadman Philippon Research Institute</i>
2:15 pm-2:20 pm	181 - Methamphetamine Intoxication and Hemodynamic Stability Among Patients Undergoing Orthopaedic Procedures <i>Capt Andrew Watkins, MD, University of Missouri Kansas City SOM</i>
2:20 pm-2:25 pm	20 - Analysis of Firework-Related Injuries to the Upper Extremity <i>EOD1 Philip J. Davis, BS, Vanderbilt University School of Medicine</i>
2:25 pm-2:30 pm	90 - Novel MRI Marker for Anterior Instability of the Lateral Meniscus <i>CPT Matthew J. Kinnard, MD, Walter Reed National Military Medical Center</i>
2:30 pm-2:35 pm	140 - Benefits of Dual Attending Surgeons During Three- and Four-Ligament Reconstruction Knee Surgery <i>Ryan Price, MS, University of New Mexico</i>
2:35 pm-2:40 pm	211 - Posterior Tibial Slope Affects Posterior Medial Meniscal Root Forces <i>CAPT (Ret) Matthew T. Provencher, MD, MBA, The Steadman Clinic and Steadman Philippon Research Institute</i>
2:40 pm-2:45 pm	215 - Meniscal Root Forces in the Setting of Meniscotibial Ligament Injury <i>CAPT (Ret) Matthew T. Provencher, MD, MBA, The Steadman Clinic and Steadman Philippon Research Institute</i>
2:45 pm-3:00 pm	Discussion

Breakout Presentations B – Shoulder & Elbow

1:30 pm-1:35 pm	38 - Predictive Factors for Failure of Intraarticular Injection in Adhesive Capsulitis
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MAJ Mathew Resnick, DO, University of Missouri Orthopedic Surgery

- 1:35 pm-1:40 pm 148 - Association Between Glenoacromial Spacing and the Risk for Shoulder Instability
Maj Haydn J. Roberts, MD, John A. Feagin, Jr. Orthopaedic Sports Medicine Fellowship
**Presented by MAJ Christina Hylden, MD*
- 1:40 pm-1:45 pm 98 - SLAP Repair versus Biceps Tenodesis in Young Patients: Systematic Review and Meta- *CPT Alexis B. Sandler, MD, William Beaumont Army Medical Center*
- 1:45 pm-1:50 pm 99 - SLAP Repair versus Biceps Tenodesis in Young Patients: Cost-Effectiveness Analysis
CPT Alexis B. Sandler, MD, William Beaumont Army Medical Center
- 1:50 pm-1:55 pm 125 - Arthroscopic Rotator Cuff Repair in Patients with Severe Obesity
CPT Alexis B. Sandler, MD, William Beaumont Army Medical Center
- 1:55 pm-2:00 pm 101 - Arthroscopic Posterior Labral Repair in Active-Duty Military Patients
CPT John P. Scanaliato, MD, William Beaumont Army Medical Center
- 2:00 pm-2:10 pm Discussion
- 2:10 pm-2:15 pm 108 - Survivorship Following Glenoid Microfracture in Active-Duty Military Patients: 5-Year Follow-Up
CPT John P. Scanaliato, MD, William Beaumont Army Medical Center
- 2:15 pm-2:20 pm 136 - Long-Term Results of Arthroscopic Repair of Full-Thickness Traumatic Rotator Cuff Tears in Active-Duty Military Patients Under the Age of 40
CPT John P. Scanaliato, MD, William Beaumont Army Medical Center
- 2:20 pm-2:25 pm 182 - The Outcomes of r-TSA in Upper Extremity Ambulators; Literature Review
CPT Timothy H. Stocker-Downing, DO, Tripler Army Medical Center
- 2:25 pm-2:30 pm 231 - Greater Tuberosity Notch and Rotator Cuff Tears: Overlooked Radiographic Sign
CPT John D. Synovec, MD, MBA, Jack Hughston Memorial Orthopedic Residency
- 2:30 pm-2:35 pm 119 - Stemmed vs. Stemless Shoulder Arthroplasty Periprosthetic Fracture Biomechanics in Synthetic Humeri
CAPT Wyatt D. Vander Voort, MD, University of California, Davis

- 2:35 pm-2:40 pm 187 - rTSA as Primary Treatment in Proximal Humerus Fractures: Literature Review
CPT John N. Wary, MD, Tripler Army Medical Center
- 2:40 pm-2:45 pm 105 - Suprascapular Nerve Decompression: An Updated Systematic Review
CPT Matthew E. Wells, MD, William Beaumont Army Medical Center

2:45 pm-3:00 pm Discussion

Breakout Presentations C – Foot & Ankle, Other, Spine and Sports Injuries

- 1:30 pm-1:35 pm 221 - Preoperative Opioid Therapy Correlates with Increased Rate of Complications in Foot and Ankle Surgery
Capt Annemarie C. Galasso, MD, Medical University of South Carolina
- 1:35 pm-1:40 pm 200 - Who is Managing Foot and Ankle Trauma?
CPT Edmund P. Mullin, MD, Brooke Army Medical Center
- 1:40 pm-1:45 pm 7 - Gender and Geographic Trends Amongst Foot & Ankle Surgeons: Where are We and Where Do We Need to Improve?
Robyn Okereke, BS, University of Texas Medical Branch
- 1:45 pm-1:50 pm 23 - Delayed Presentation of Chronic Atlantoaxial Rotatory Fixation and COVID
2LT Rebecca Miles, BS, Uniformed Services University
- 1:50 pm-1:55 pm 40 - Use of Expandable Corpectomy Trial and Cage for Reduction of Neurofibromatosis associated Severe Cervical Kyphotic Deformity
CPT Michael W. Patt, DO, Madigan Army Medical Center
- 1:55 pm-2:00 pm 67 - Spine Injuries Sustained Crossing the U.S.-Mexico Border
CPT Michael M. Polmear, MD, William Beaumont Army Medical Center
- 2:00 pm-2:10 pm Discussion
- 2:10 pm-2:15 pm 82 - Research Publication Trends of Spine Fellows
CPT Franklin J. Powlan, MD, William Beaumont Army Medical Center
- 2:15 pm-2:20 pm 31 - Cervical Spinal Immobilization: A Head-to-Head Comparison of a One-Step Spray-on Foam Splint vs. SAM Splint Immobilization
Austin Roebke, MD, Ohio State University Wexner Medical Center
- 2:20 pm-2:25 pm 208 - Revision Distal Biceps Tendon Repair: Case Report and Literature Review

CPT Bryan G. Adams, MD, Madigan Army Medical Center

- 2:25 pm-2:30 pm 37 - Radiographic Evidence of Hip Dysplasia in Femoral Neck Stress Fractures
2d Lt Blake H. Cohoe, BS, Washington State University College of Medicine
- 2:30 pm-2:35 pm 17 - How to Fashion the Bone Block for Reconstruction of the Glenoid in Anterior and Posterior Instability
MAJ (Ret) Justin J. Ernat, MD, University of Utah
- 2:35 pm-2:40 pm 248 - Social Media Usage by Orthopaedic Sports Medicine Journals: Impactful Practices
CPT Alexis B. Sandler, MD, William Beaumont Army Medical Center
- 2:40 pm-2:45 pm 14 - The Blumensaat Line on Radiograph as an Accurate Predictor of Native ACL Length
Jeffrey Simpson, BS, University of Central Florida College of Medicine
- 2:50 pm-3:00 pm Discussion
- 5:00 pm-6:00 pm **Military Female in Orthopaedic Surgeons Forum & Reception**
- 6:30 pm-9:00 pm **Possible Commander's Cup Event -TBD**

Thursday, December 15 - Warren Kadrmas Memorial Sports Day

- 12:00 am-11:59 pm Speaker Ready Area
- 6:30 am-8:00 am *Registered Guests' Breakfast*
- 6:30 am-11:05 am Meeting Registration

Symposium 4: Sports Medicine

Moderator: Maj Travis J. Dekker, MD, *United States Air Force Academy*
 CAPT (Ret) Matthew T. Provencher, MD, MBA, *The Steadman Clinic*

- 7:00 am-7:20 am My Approach to the Young Arthritic Shoulder
CAPT (Ret) Matthew T. Provencher, MD, MBA, The Steadman Clinic
- 7:20 am-7:25 am 246 - Biomechanical Evaluation of Posterior Shoulder Instability with a Clinically Relevant Posterior Bone Loss Model
CDR Robert A. Waltz, MD, United States Naval Academy

- 7:25 am-7:30 am 88 - Open Bankart versus Arthroscopic Bankart with Remplissage for Anterior Glenohumeral Instability with Glenoid Bone Loss
LT Jordan Tropsch, MD, Walter Reed National Military Medical Center
- 7:30 am-7:35 am 21 - Fifteen-Year Radiographic Follow-Up of a Prospectively Randomized Clinical Trial Comparing Early vs. Delayed Anterior Cruciate Ligament Reconstruction
CPT Christian Cruz, MD, Tripler Army Medical Center
- 7:35 am-7:40 am 150 - The Effect of BFR Therapy on Shoulder Function Following Stabilization
MAJ Christina Hylden, MD, Keller Army Community Hospital
- 7:40 am-7:50 am Discussion
- 7:55 am -8:55 am **Focused Breakfast Presentations**

Concurrent Session 6A: ICL - Sports Medicine

Moderator: Maj Travis J. Dekker, MD, *United States Air Force Academy*
COL (Ret) Dean Taylor, MD, *Duke University Medical Center*

- 9:00 am-9:50 am Make a Case for My Go-To Procedure in the High-Risk Patient with Sub-Critical Bone Loss
Panel: *Thomas Hackett, MD, Steadman Philippon Orthopaedic Institute*
John D. Kelly IV, MD, University of Pennsylvania
CAPT (Ret) Matthew T. Provencher, MD, MBA, The Steadman Clinic
Col (Ret) John M. Tokish, MD, Mayo Clinic

Concurrent Session 6B: Research – Tumor

Moderator: Lt Col Steven W. Thorpe, MD, *University of California, Davis*
Lt Col Dustin Lybeck, MD, *San Antonio Military Medical Center*
Kurt Weiss, MD, *University of Pittsburgh Medical Center*

- 9:00 am-9:05 am 146 - Allograft Prosthetic Composite Reconstruction following Pelvic Tumor Resection
CPT Nathan P. Thomas, MD, Massachusetts General Hospital
- 9:05 am-9:10 am 123 - Clear Cell Sarcoma: Experience at a Military Tertiary Referral Center
CPT Alyssa Cook, MD, San Antonio Military Medical Center
- 9:10 am-9:15 am ~~11 - A Review of Characteristic Imaging Findings in Dedifferentiated Parosteal Osteosarcoma~~
~~*ENS Amanda Miller, BS, Western University of Health Sciences*~~
48 - Outcomes of Bone Sarcoma in the Over 90's

Laura J. Hartley, BSc MPharm (Hons) MBChB, The Royal Orthopaedic Hospital NHS Foundation Trust

- 9:15 am-9:25 am Discussion
- 9:25 am-9:30 am 128 - Scrutinizing Use of Contrasted Chest CTs in Extremity Sarcoma Staging.
Capt Jacob I. Priester, MD, University of California, Davis
- 9:30 am-9:35 am 9 - Complications After Surgical Treatment of Benign Bone Tumors
LT Matthew Henriques, MD, BSE, Naval Medical Center San Diego
- 9:35 am-9:40 am 47 - Outcomes of Soft Tissue Sarcoma in Nonagenarians
Laura J. Hartley, BSc MPharm (Hons) MBChB, The Royal Orthopaedic Hospital NHS Foundation Trust
- 9:40 am-9:50 am Discussion

Concurrent Session 6C: ICL – Pediatrics

- 9:00 am-9:50 am Pediatric Trauma Cases I Learned the Most From
Robert Fitch, MD, Duke University Medical Center
Heather Menzer, MD, Phoenix Children's Hospital
- 9:55 am -10:15 am **SOMOS Business Meeting**
(All Active SOMOS Members Invited to Attend)

General Session 3 – Award Presentations

Moderators: Maj Travis J. Dekker, MD, *United States Air Force Academy*
 Maj Bryan K. Lawson, MD, *San Antonio Military Medical Center*

- 10:15 am-11:00 am Founders' Award Abstract Presentation
 Norman T. Kirk Award Abstract Presentation
 Jamie Dianne Bulken-Hoover Memorial - Best Hand Paper Award
 Discussion
- 11:05 am-12:05 pm **Focused Lunch Presentations**

Breakout Presentations A – Practice Management/Education

- 12:10 pm-12:15 pm 55 - Orthopaedic Trauma Operation Records Audit Comparing Typed with Hand-Written Notes
Fitzgerald C. Anazor, MBBS, East Kent Hospitals University NHS Foundation Trust
- 12:15 pm-12:20 pm 155 - The Impact of COVID-19 on Graduating Resident Case Counts

CPT Erickson Andrews, MD, Henry Ford Health System

12:20 pm-12:25 pm 156 - Comparison of Orthopaedic Resident Case Counts Between Military and Civilian

CPT Erickson Andrews, MD, Henry Ford Health System

12:25 pm-12:30 pm 16 - Patient Discharge to A Skilled Nursing Facility Is Associated with Higher Rates of Complications and Costs Following Primary Total Hip Arthroplasty: A Matched-Control Analysis

Weston Buehring, State University of New York Downstate Medical Center

12:30 pm-12:35 pm 189 - Quantification of Surface Area for 3D Objects: A Comparative Study

2d Lt Raul A. Davalos, BA, Uniformed Services University of the Health Sciences

12:35 pm-12:45 pm Discussion

12:45 pm-12:50 pm 250 - Gender Representation at Orthopaedic Specialty Annual Meetings from 2015 to 2020

CPT Marcus Hoof, MD, San Antonio Military Medical Center

12:50 pm-12:55 pm 241 - Maximizing Effective Twitter Use by Orthopaedic Sports Medicine Journals

LT Katina Kartalias, MS, MD, Walter Reed National Military Medical Center

12:55 pm-1:00 pm 75 - Surgeon Age, Years in Practice, and Gender and Patient Satisfaction
LT Laura Y. Lu, MD, Massachusetts General Hospital/Harvard Medical School

1:00 pm-1:05 pm 137 - Physical Therapy after ACL Reconstruction: Access to Care and COVID-19

LTC Nathan Marsh, MD, Womack Army Medical Center

1:05 pm-1:10 pm 245 - Few Articles Address Business Topics in Top Orthopaedic Sports Journals

Logan Morin, DO, William Beaumont Army Medical Center

1:10 pm-1:15 pm 165 - The Opioid Crisis in New Jersey Utilizing Geographic Information Systems

Seungkyu B. Park, BS, William Beaumont Army Medical Center

1:15 pm-1:30 pm Discussion

**Breakout Presentations B – Shoulder & Elbow, Infection, Pediatrics and Tumor/
Musculoskeletal Disease**

- 12:10 pm-12:15 pm 142 - Beach Chair vs. Lateral Decubitus Positioning For Posterior Shoulder Stabilization
CPT Bobby G. Yow, MD, Walter Reed National Military Medical Center
- 12:15 pm-12:20 pm 110 - Association Between Hemoglobin A1c and Postoperative Infections in Elective Hand Surgery
CPT Jacob Malmquist, MD, MS, William Beaumont Army Medical Center
- 12:20 pm-12:25 pm 261 - Surgical Hand Scrub with Alcohol-Based Gel Equivalent to Timed Scrubs
CPT Colton Webber, MD, Medical College of Georgia at Augusta University
- 12:25 pm-12:30 pm 185 - Legg-Calvé-Perthes Disease: Trends in Treatment
CPT Kyle J. Klahs, DO, William Beaumont Army Medical Center
- 12:30 pm-12:35 pm 153 - Osteomyelitis in Sickle Cell Disease: Is Salmonella Most Common?
CPT Erik Hegeman, MD, Brooke Army Medical Center
- 12:35 pm-12:45 pm Discussion
- 12:45 pm-12:50 pm 198 - Association between Combat-Related Traumatic Injury and Skeletal Health
Flt Lt David C. Cain, MB, ChB, MRCS, Royal Centre for Defence Medicine
- 12:50 pm-12:55 pm 48 - Outcomes of Bone Sarcoma in the Over 90's
Laura J. Hartley, BSc MPharm (Hons) MBChB, The Royal Orthopaedic Hospital NHS Foundation Trust
- 12:55 pm-1:00 pm 116 - Cervical Conditions in U.S. Military Aviators: A Retrospective Cohort Study
LCDR Richard W. Lang, MD, Naval Medical Center San Diego
- 1:00 pm-1:05 pm 233 - Treatment Periprosthetic Fracture OPRA Transfemoral Osseointegration Implant Case Report
CPT John D. Synovec, MD, MBA, Jack Hughston Memorial Orthopedic Residency
- 1:05 pm-1:10 pm 56 - Critical Review of Oncologic Medical Malpractice Claims Against Orthopedic Surgeons
CPT Matthew E. Wells, DO, William Beaumont Army Medical Center

- 1:10 pm-1:15 pm 78 - Preoperative Echocardiograms in Hip Fracture Result in Perioperative Interventions
LT Laura Y. Lu, MD, Massachusetts General Hospital/Harvard Medical School
- 2:45 pm-2:50 pm 216 - Outcomes following THA of Patient's Living in Urban vs. Rural Areas
ENS Andrew D. Lachance, BS, Tufts University School of Medicine
- 1:15 pm-1:30 pm Discussion

Breakout Presentations C – War Trauma/Military Medicine

- 12:10 pm-12:15 pm 259 - Epidemiology of Surgical Cases at a Role III Field Hospital: Operation Inherent Resolve
MAJ Christopher M. Belyea, MD, MBA, Walter Reed National Military Medical Center
- 12:15 pm-12:20 pm 41 - Does Clinical Equipoise Exist for Femoral Neck Stress Fracture Management?
CPT Brandon H. Chung, DO, Tripler Army Medical Center
- 12:20 pm-12:25 pm 71 - Transtibial Amputation with Fibulectomy and FCL Reconstruction: Surgical Technique
CPT Colin Harrington, MD, Walter Reed National Military Medical Center
**Presented by LT Shane Kaplan, MD*
- 12:25 pm-12:30 pm 207 - Combat Injury Profile in Israeli Urban Warfare
MAJ Alexandra Satanovsky, MD, Hadassah Medical Center
- 12:30 pm-12:35 pm 124 - Isolated Limb Fractures – an Underestimated Injury Among Military Personnel
CPT Ilan Y. Mitchnik, MD, Israel Defense Force's Medical Corps
- 12:35 pm-12:45 pm Discussion
- 12:45 pm-12:50 pm 68 - Utilization of Orthopaedic Services by Personnel Referred for Post-Deployment Care
Andrew MacGregor, PhD, MPH, Naval Health Research Center
- 12:50 pm-12:55 pm 107 - A Novel Hemiarthroplasty Design for Simultaneous Treatment of Post-Traumatic Elbow Ankylosis and Distal Humerus Non-Union: A Case Report
CPT Jacob Malmquist, MD, MS, William Beaumont Army Medical Center

12:55 pm-1:00 pm	59 - Radiographic Review of Military Beneficiaries with Hip Disarticulation or Hemipelvectomy <i>2d Lt Kaitlin S. Porter, Uniformed Services University of the Health Sciences</i>
1:00 pm-1:05 pm	12 - Bluetooth Tactical Headsets Improve the Speed of Accurate Patient Handoffs <i>LTC Daniel J. Stinner, MD, PhD, Vanderbilt University Medical Center</i>
1:05 pm-1:10 pm	254 - Comprehensive Treatment of Gunshot Injuries During the Russian-Ukrainian military Conflict <i>Major Nikolaj Wolfson, MD, CPMC</i>
1:10 pm-1:15 pm	147 - Improved Musculoskeletal Model of Care in a Deployed Military Hospital <i>CAPT Ian J. Young, MD, Royal Australian Navy</i>
1:15 pm-1:20 pm	174 - The Top 50 Most Cited Articles on Midshaft Clavicle Fractures: An Analysis <i>CPT Jacob Malmquist, MD, MS, William Beaumont Army Medical Center</i>
1:15 pm-1:30 pm	Discussion
11:30 am-5:00 pm	Commander's Cup Event – Golf Tournament
6:30pm-10:00pm	Awards Dinner <i>Presidential Guest Speaker (Chad Hennings)</i>

Friday, December 16

12:00 am-11:45 am	Speaker Ready Area
6:30 am-8:00 am	<i>Registered Guests' Breakfast</i>
7:00 am-7:50 am	Service Breakouts Air Force Army Navy
7:00 am-11:50 am	Meeting Registration

Symposium 5: Trauma

Moderator: Maj (Ret) Jarrod E. Dumpe, MD, *Medical Center Navicent Health*
Michael Beebe, MD, *The Campbell Clinic*
Capt Wesley Honeycutt, MD, *San Antonio Military Medical Center*

- 8:00 am-8:20 am Limb Salvage vs. Amputation in Distal Tibia Fractures
Panel: Maj (Ret) Jarrod E. Dumpe, MD, Medical Center Navicent Health
Michael Beebe, MD, The Campbell Clinic
- 8:20 am-8:25 am 180 - Intrawound Vancomycin Achieves Sustained High Interstitial
 Concentrations in Injured Human Extremities
Capt Taylor J. Bates, MD, San Antonio Military Medical Center
- 8:25 am-8:30 am 39 - Fully Threaded Screws Provide Superior Fixation in Femoral Neck
 Fracture Fixation Compared to Partially Threaded Screws: A
 Biomechanical Study
Patrick K. Mescher, MD, Walter Reed National Military Medical Center
- 8:30 am-8:35 am 87 - Long Term Health Outcomes of Limb Salvage versus Amputation for
 Combat Related Trauma
LT Jordan Tropf, MD, Walter Reed National Military Medical Center
- 8:35 am-8:40 am 141 - Long-Term Viability for Combat-Traumatized Extremities Treated
 with Flap-Based Limb Salvage
CPT Colin Harrington, MD, Walter Reed National Military Medical
Center
- 8:40 am-8:50 am Discussion

Concurrent Session 7A: Research – Trauma

Moderator: Maj R. Bradley Kessler, MD, *San Antonio Military Medical Center*
 Capt M. Wesley Honeycutt, MD, *San Antonio Military Medical Center*

- 8:55 am-9:00 am 129 - Cost-Effectiveness of Single Stage Surgery of Osteomyelitis
Daniel C. Allison, MD, MBA, Bonesupport AB
- 9:00 am-9:05 am 258 - Preoperative Hypoalbuminemia increases 30-Day Risk of Major
 Complications, Mortality and Readmission in Operative Fixation of Pelvis
 and Acetabulum Fractures
Jonathan Lans, MD, Harvard Medical School Orthopedic Trauma
Initiative
- 9:05 am-9:10 am 29 - Complications and Coverage after Complete Articular, Open Tibial
 Plateau Fractures
Phillip T. Grisdela, MD, Harvard Combined Orthopaedic Residency
Program
- 9:10 am-9:20 am Discussion

- 9:20 am-9:25 am 24 - Orthopedic Randomized Controlled Trials Published in General Medical Versus Orthopaedic Journals
ENS Andrew D. Lachance, BS, Tufts University School of Medicine
- 9:25 am-9:30 am 252 - Fragility Fracture Process Improvement Long Term Follow-up
LT Christopher Sullivan, MD, MBA, Naval Medical Center San Diego
- 9:30 am-9:35 am 163 - Correlation of Neutrophil Activation to Injury Severity in Patients with Femur Fractures
Leigh Campbell, Vanderbilt University School of Medicine
- 9:35 am-9:45 am Discussion

Concurrent Session 7B: Research – Hand

Moderator: Maj. Genevieve Rambau, MD, *Eglin Air Force Base*
Aviram Giladi, MD, *Union Memorial Hospital*

- 8:55 am-9:00 am 22 - Relationship Between Construct Design and Subsidence in Distal Radius Fractures
Capt Clinton J. Ulmer, BS, MD, UT Health San Antonio
- 9:00 am-9:05 am 219 - Opioid Use Differences Based on Surgical Setting: Do in Office Procedures Affect Patient Use?
Capt John A. Barcel, MD, Medical University of South Carolina
- 9:05 am-9:10 am 42 - Outcomes of Distal Radius Fractures treated with Multiplanar External Fixation
LT Jordan Tropf, MD, Walter Reed National Military Medical Center
- 9:10 am-9:20 am Discussion
- 9:20 am-9:25 am 130 - First Dorsal Compartment Release During Distal Radius ORIF
CPT James A. Jordan, MD, William Beaumont Army Medical Center
- 9:25 am-9:30 am 26 - Surgeon Preferences in the Treatment of Basilar Thumb Osteoarthritis
CAPT Wyatt D. Vander Voort, MD, University of California, Davis
- 9:30 am-9:35 am 58 - Unicortical vs. Bicortical Proximal Locking Screws in a Radius Model
Ryan J. Bickley, MD, Tripler Army Medical Center
- 9:35 am-9:45 am Discussion

Concurrent Session 7C: Research – Foot & Ankle

Moderator: Lt Col Kimberly Broughton, MD, *Eglin Air Force Base*
LTC Jeannie Huh, MD, *San Antonio Military Medical Center*

- 8:55 am-9:00 am 30 - Screw-Only Fibular Construct for Weber B Ankle Fractures
Phillip T. Grisdela, MD, Harvard Combined Orthopaedic Residency Program
- 9:00 am-9:05 am 19 - Prevalence of Orthopaedic Knee Scooter-Related Injury: Risk Factor Analysis and Patient Safety Perceptions in a Prospective Cohort
CAPT Landon Rosevear, DO, Valley Hospital Medical Center
- 9:05 am-9:10 am 62 - Surgical Technique Variation among Orthopaedic Surgeons for Lateral Ligament Reconstruction
LTC Kevin D. Martin, DO, Ohio State University Wexner Medical Center
- 9:10 am-9:20 am Discussion
- 9:20 am-9:25 am 135 - Race and Gender Diversity Trends within Military Orthopaedic Fellowship Training
Capt Miles W. A. Fisher, MD, Brooke Army Medical Center
- 9:25 am-9:30 am 83 - Arthroscopic Reduction and Internal Fixation of Talus Fractures; An All-Inside Soft-Tissue Preserving Technique
LTC Kevin D. Martin, DO, Ohio State University Wexner Medical Center
- 9:30 am-9:35 am 212 - Tibiotalocalcaneal Nail Fixation for Management of Ankle and Hindfoot Trauma
2LT Mariah Arave, BS, Uniformed Services University of Health Sciences
- 9:35 am-9:45 am Discussion
- 9:50 am-10:00 am Refreshment Break

Concurrent Session 8A: Research –Trauma

Moderator: Maj R. Bradley Kessler, MD, *San Antonio Military Medical Center*
Maj (Ret) Jarrod E. Dumpe, MD, *Medical Center Navicent Health*

- 10:05 am-10:10 am 210 - Assessing the Efficacy of Two Accepted Lag Screw Insertion Techniques
CPT Alexys Bermudez, MD, Tripler Army Medical Center
- 10:10 am-10:15 am 195 - Osteoporosis Treatment after Arthroplasty for Hip Fracture Prevents Periprosthetic Fracture
CPT Matthew J. Kinnard, MD, Walter Reed National Military Medical Center
- 10:15 am-10:20 am 60 - Open vs. Closed Geriatric Ankle Fractures: Sentinel Event or Sign of Good Health

LT Mathew Bowers, MD, Naval Medical Center - San Diego / University of California San Diego

- 10:20 am-10:25 am Discussion
- 10:25 am-10:30 am 91 - Ankle Fractures During Basic Training and Factors Associated with Completion
CPT Logan L. Wallace, MD, Dwight D. Eisenhower Army Medical Center
- 10:30 am-10:35 am 120 - Femur Fractures and Hemorrhagic Shock: Implications for Prehospital Treatment
CPT Ilan Y. Mitchnik, MD, Israel Defense Force's Medical Corps
- 10:35 am-10:40 am 145 - A Comparison of Pelvic Binders: Can They Close The Book?
Capt Thomas Howe, MBBS BSc(Hons), 16 Medical Regiment, British Army
- 10:40 am-10:45 am 194 - Intramedullary Nailing of Femoral Shaft Fractures: is Plasmin Activation the “Second Hit”?
LT Jonathan C. Savakus, MD, Vanderbilt University Medical Center
- 10:45 am-10:55 am Discussion

Concurrent Session 8B: ICL – Sports Medicine

Moderator: LCDR Brian T. Barlow, MD, *Naval Medical Center San Diego*
 LTC (Ret) Jonathan F. Dickens, MD, *Walter Reed National Military Medical Center*

- 10:05 am-10:25 am Sports Military Research: The 30,000 ft. View and a Look into the Future
Panel: *LCDR Brian T. Barlow, MD, Naval Medical Center San Diego*
 LTC (Ret) Jonathan F. Dickens, MD, Walter Reed National Military Medical Center
- 10:25 am-10:30 am 73 - Assessing ACL Ruptures in NFL Players and its Implication on Active Duty Servicemembers
ENS Betsy W. Tang, BS, Uniformed Services University of the Health Sciences
- 10:30 am-10:35 am 106 - Volleyball-Related Injuries among Female High School and College-Aged Athletes
CPT Annette Yoon, MD, William Beaumont Army Medical Center
- 10:35 am-10:40 am 255 - Femoroacetabular Impingement: Preoperative Characteristics Within a Military Population
CPT Jeffrey L. Wake, DO, Tripler Army Medical Center

- 10:40 am-10:45 am 176 - Improved Accuracy of Coronal Alignment Can Be Attained Using 3D printed PSI for Knee Osteotomies: A Systemic Review of Level III-IV studies
Maj Travis J. Dekker, MD, United States Air Force Academy
- 10:45 am-10:50 am 204 - Biomechanical Analysis of Meniscotibial Ligament Tenodesis to Treat Meniscal Extrusion
Armando F. Vidal, MD, Steadman Philippon Research Institute
- 10:50 am-10:55 am 177 - Perioperative Gabapentinoids Reduce Pain and Opioid Requirement in Early Postoperative Period in Patients Undergoing ACLR: A Systematic Review of Randomized Controlled Trials
Maj Travis J. Dekker, MD, United States Air Force Academy

Concurrent Session 8C: Research – Pediatrics

Moderator: TBD

- 10:05 am-10:10 am 64 - Relationship of Depression Screening and Outcomes in Adolescent Knee Instability
LT Reinaldo E. Colon-Morillo, MD, Naval Medical Center San Diego
- 10:10 am-10:15 am 224 - Effect of Statewide Social Distancing and Stay-at-Home Directives on Pediatric Orthopaedic Trauma at an Urban Healthcare System During the COVID-19 Pandemic
CPT Vidushan Nadarajah, MD, SUNY Downstate Health Sciences University
- 10:15 am-10:20 am 209 - Opioid Administration in Pediatric Patients with Isolated Femoral Shaft Fracture
2LT Amy Thompson, BS, Penn State College of Medicine
- 10:20 am-10:30 am Discussion
- 10:30 am-10:35 am 162 - Assessing "Joint Above and Below" Radiography for Upper Extremity Fractures
2LT Sean Kshir, BS, Penn State University College of Medicine
- 10:35 am-10:40 am 172 - Open vs. Closed Treatment of Pediatric Supracondylar Humerus fractures: A Meta-Analysis
CPT Kyle J. Klahs, DO, William Beaumont Army Medical Center
- 10:40 am-10:45 am 49 - Comparing Removal Torques Between Partially and Fully Threaded SCFE Screws
CAPT Alexander J. Mayers, MD, Geisinger Orthopaedics
- 10:45 am-10:55 am Discussion

Concurrent Session 9A: ICL – Trauma

Moderator: Maj R. Bradley Kessler, MD, *San Antonio Military Medical Center*

11:00 am-11:50 am Management of Tibial Plateau Fractures
Paul Gregory, MD, Sutter Health

Concurrent Session 9B: Research – Total Joints

Moderator: Maj Fortune Egbulefu, MD, *Nellis Air Force Base*

11:00 am-11:05 am 46 - Safety and Efficacy of Uninterrupted Warfarin Anticoagulation with Supplemental Tranexamic Acid in Total Joint Arthroplasty Patients
Officer Candidate Michael G. Johnston, MA, Washington State University, Elson S. Floyd College of Medicine

11:05 am-11:10 am 230 - Total Knee Arthroplasty Volume, Cost-Utilization, and Outcomes During the COVID-19 Pandemic: Early Results From New York
CPT Vidushan Nadarajah, MD, SUNY Downstate Health Sciences University

11:10 am-11:15 am 34 - Cemented vs. Cementless Primary Total Knee Arthroplasty in Obese Patients
LT Jordan Tropf, MD, Walter Reed National Military Medical Center

11:15 am-11:25 am Discussion

11:25 am-11:30 am 61 - Correlating Postoperative Radiographic Alignment with Failure of Unicompartamental Knee Arthroplasty
COL (Ret) Tad Gerlinger, MD, Rush University Medical Center

11:30 am-11:35 am 164 - Variables in Achieving KOOS, JR MCID Following Total Knee Arthroplasty
Tahsin Rahman, MD, Henry Ford Health System
**Presented by CPT Erickson Andrews, MD*

11:35 am-11:40 am 235 - Effect of Tourniquet TKA on Quadriceps Strain in the Elderly
ENS Melissa Odoemene, BS, McGovern Medical School

11:40 am-11:50 am Discussion

Concurrent Session 9C: ICL – Hand

Moderator: Maj. Genevieve Rambau, MD, *Eglin Air Force Base*
CDR Scott Tintle, MD, *Walter Reed National Military Medical Center*

11:00 am-11:50 am Management of Scaphoid Fractures
Aviram Giladi, MD, Union Memorial Hospital

12:00 pm -2:00 pm **Board of Directors Meeting**