ACCREDITATION INFORMATION

PROGRAM COMMITTEE

CDR Lance E. LeClere, MD – Co-Chair LCDR Lucas S. McDonald, MD, MPH – Co-Chair MAJ James A. Blair, MD CAPT Charles E. Craven Jr., MD Lt Col Christopher T. LeBrun, MD LTC Benjamin K. Potter, MD Maj R. Judd Robins, MD LCDR Theodore J. Steelman, 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 59th Annual Meeting of the Society of Military Orthopaedic Surgeons has been developed primarily for orthopaedic and trauma surgeons.

CME ACCREDITATION

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Academy of Orthopaedic Surgeons and the Society of Military Orthopaedic Surgeons. The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of 33.75 *AMA PRA Category 1 Credits*TM. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

- * 24.25 CME Credits for Scientific Program
- * 5.5 CME Credits for Scientific E-Poster Sessions
- * 4 CME Credits for Multimedia Education Sessions

PURPOSE

The intent of the SOMOS Meeting is to provide an educational forum for the exchange of militarily relevant orthopaedic surgical advances in order to optimize the delivery of orthopaedic specialty care within the Department of Defense.

OBJECTIVES

Orthopaedic surgeons should attend updates reporting on the contemporary practice of orthopaedic surgery on a regular basis. Paramount to the process of continuing medical education is the sharing of new techniques and its outcomes. The SOMOS Annual Meeting provides the opportunity for the military orthopaedic surgery community to share their combined experiences and knowledge, so that individual practitioners can incorporate the most recent advances into

their own current surgical practice. By the end of the meeting, individual SOMOS attendees will be able to do the following:

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

DISCLAIMER

The Society of Military Orthopaedic Surgeons 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 2017 Society of Military Orthopaedic Surgeons (SOMOS) 58th 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 2017 Annual Meeting do not constitute endorsement, concurrence, validation or official position of SOMOS or any other department or agency.

FORMAT

The educational sessions will be held December 12-15, 2017 from approximately 7:00 am - 5:00 pm.

SCIENTIFIC E-POSTER PRESENTATIONS

Scientific E-Posters are an important feature of the SOMOS Annual Meeting. E-Posters will be on video display along with their presenters December 12-15 during the Scientific Program. Please note on the Scientific Program Schedule the designated times the poster presenters will be available for discussion.

MULTIMEDIA EDUCATION

Multimedia education materials will be offered December 12-15, at the designated times. A comprehensive selection of AAOS DVDs will be available for your individual education.

SOMOS Scientific Program

Monday, December 11

12:00 pm-8:00 pm Meeting Registration

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

Tuesday, December 12

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

6:00 am-6:55 am Scientific E-Poster Session (Presenters will be available to answer

questions.) (Princess Ballroom Salons A, B, C & Castile 1)

6:30 am-5:15 pm Meeting Registration (*Princess Ballroom Foyer*)

Opening Ceremony

Moderators: CDR Lance E. LeClere, MD, US Naval Academy

LCDR Lucas S. McDonald, MD, MPH, Naval Medical Center San Diego CAPT Charles E. Craven Jr., MD, Naval Medical Center San Diego

7:00 am-7:10 am Color Guard

7:10 am -7:20 am Program Chairmen Welcome

7:20 am-7:30 am Report of SOMOS President

7:30 am-8:30 am Presidential Keynote Speaker

VADM Forest Faison, Surgeon General of the Navy

8:30 am-8:50 am Break with Exhibitors (Princess Ballroom Salons D, E, F & G)

Symposium 1: Lower Extremity Injuries 1

Moderator: Col. Brandon R. Horne, MD, Wright Patterson Air Force Base

8:50 am-9:15 am The Evolution and Future of Severe Open Fracture Care

CAPT (Ret) Michael J. Bosse, MD, Carolinas Medical Center

Orthopaedics

9:15 am-9:20 am Discussion

General Session 1: War Trauma

Civilian Moderator: Orthopaedics	CAPT (Ret) Michael J. Bosse, MD, Carolinas Medical Center
Military Moderator:	Col. Brandon R. Horne, MD, Wright Patterson Air Force Base
9:20 am-9:26 am	Risk Factors for Osteomyelitis in Wartime Open Tibia Fractures Do Not Predict Recurrence of Infection MAJ Joseph L. Petfield, MD, Landstuhl Regional Medical Center
9:26 am-9:32 am	Founders Award Intra-Wound Application of Antibiotic Powder Decreases Deep Infection and Reduces Severity of Heterotopic Ossification in Combat-Related Major Lower Extremity Amputations LT Benjamin W. Hoyt, MD, Walter Reed National Military Medical Center
9:32 am-9:38 am	Physical Performance Measures and Patient Reported Outcomes Which Predict Future Amputation CPT Nathan A. Franklin, DO, San Antonio Military Medical Center
9:38 am-9:44 am	Osseointegration for the Reconstruction of Devastating Military and Terrorist Blast Injuries Solon L. Rosenblatt, MD, Macquarie University Hospital
9:44 am-9:50 am	Discussion
9:50 am-9:56 am	Tranexamic Acid Administration and Venous Thromboembolism in Combat Casualties with Orthopedic Injuries CPT Michael D. Baird, MD, Uniformed Services University of the Health Sciences
9:56 am-10:02 am	Operative Stabilization of Unstable Flail Chest Injuries Reduces Mortality to that of Stable Chest Wall Injuries Michael David McKee, MD, FRCS(C), St. Michael's Hospital, University of Toronto *Presented by Niloofar Dehghan, MD, FRCSC
10:02 am-10:08 am	In Vivo Antimicrobial Efficacy and Degradation Kinetics of Dakin's Solution, An Adjunctive Treatment for Combat Wound Infections CPT Nathan A. Franklin, DO, San Antonio Military Medical Center
10:08 am-10:14 am	Increase in the Proportion of Combat-Related Amputations Forming Heterotopic Ossification CPT Christopher M. Daniels, MD, Walter Reed National Medical Center
10:14 am-10:20 am	Discussion

10:20 am-10:40 am Break with Exhibitors (Princess Ballroom Salons D, E, F & G)

Symposium 2: Lower Extremity Injuries 2

Moderator: CDR Bradley K. Deafenbaugh, MD, Naval Medical Center San Diego

10:40 am-11:05 am Distal Femur Fractures

Alexandra (Sandy) Schwartz, MD, University of California, San Diego

11:05 am-11:10 am Discussion

General Session 2: Lower Extremity Trauma

Civilian Moderator: Alexandra (Sandy) Schwartz, MD, *University of California, San Diego* Military Moderator: CDR Bradley K. Deafenbaugh, MD, *Naval Medical Center San Diego*

11:10 am-11:16 am Osseointegrated Implants for Trans Femoral Amputees: Radiographic

Evaluation of Bone Remodeling

Seamus Thomson, PhD, The University of Sydney

*Presented by Solon L. Rosenblatt, MD, Macquarie University Hospital

11:16 am-11:22 am Treatment of Bone Defects In Open Tibia Fractures Treated With an IMN

MAJ William T. Obremskey, MD, Vanderbilt University

*Presented by CAPT (Ret) Michael J. Bosse, MD, Carolinas Medical

Center Orthopaedics

11:22 am-11:28 am Limb Salvage and Amputation Outcomes Following Severe Distal Tibia

and Hindfoot Injuries: A Multi-Center Prospective Evaluation *CAPT (Ret) Michael J. Bosse, MD, Carolinas Medical Center*

Orthopaedics

11:28 am-11:34 am Martial Arts-Based High Intensity Interval Training in the Rehabilitation

of Combat Amputees

Capt Gavin L. Mills, MD, San Antonio Military Medical Center

11:34 am-11:40 am Discussion

11:40 am-11:46 am The Outcomes of Early Surgical Intervention in Geriatric Proximal Femur

Fractures among Patients Receiving Direct Oral Anticoagulation CPT Nathan A. Franklin, DO, San Antonio Military Medical Center

11:46 am-11:52 am Incidence, Predictors, and Impact of Valgus Reduction of Intertrochanteric

Hip Fractures Treated with the Trochanteric Fixation Nail Helical Blade

System: Is Anatomic Reduction Necessary?

CPT Nicholas A. Kusnezov, MD, William Beaumont Army Medical Center

Ankle Fractures Associated with the Development of Wound

Complications?

LT Lauren Ehrlichman, MD, Naval Hospital Beaufort

11:58 am-12:04 pm Initiating a Diabetes Control Protocol During Inpatient Admissions

Decreases Surgical Site Infections among Diabetic Trauma Patients CPT Stephen Chan, MD, William Beaumont Army Medical Center

12:04 pm-12:10 pm Discussion

12:15 pm-1:15 pm *SOMOS Luncheon – Industry Presentation*

 ${\bf Stryker}\ (Princess\ Ballroom\ Salons\ A)$

Legally Mine (Princess Ballroom Salons B)
DePuy (Princess Ballroom Salons C)

Symposium 3: Upper Extremity Trauma

Moderator: MAJ (P) Daniel J. Stinner, MD, San Antonio Military Medical Center

1:20 pm-1:45 pm Trends in Humerus and Clavicle Fracture Care

Steven J. Morgan, MD, FACS, Mountain Orthopaedic Trauma Surgeons

at Swedish Medical Center

1:45 pm-1:50 pm Discussion

General Session 3: Upper Extremity Trauma

Civilian Moderator: Steven J. Morgan, MD, FACS, Mountain Orthopaedic Trauma Surgeons

at Swedish Medical Center

Military Moderator: MAJ (P) Daniel J. Stinner, MD, San Antonio Military Medical Center

1:50 pm-1:56 pm Outcomes of Surgical Treatment for High-Energy Open Forearm Fractures

LT Kyle E. Nappo, MD, Walter Reed National Military Medical Center

1:56 pm-2:02 pm Operative vs. Non-Operative Treatment of Acute Displaced Distal

Clavicle Fractures: A Multicentre Randomized Controlled Trial

Michael David McKee, MD, FRCS(C), St. Michael's Hospital, University

of Toronto

2:02 pm-2:08 pm Figure of Eight Bracing for Displaced Midshaft Pediatric Clavicle

Fractures: Effect on Shortening Compared to Simple Sling Treatment Christopher Sugalski, MD, Ohio State University Medical Center

2:08 pm-2:14 pm Factors Associated with Ulnar Neuropathy after Bi-Columnar Plate

Fixation of Distal Humerus Fractures

Michael David McKee, MD, FRCS(C), St. Michael's Hospital, University

of Toronto

*Presented by Niloofar Dehghan, MD, FRCSC

2:14 pm-2:20 pm	Discussion	
2:20 pm-2:26 pm	Norman T. Kirk Award Palovarotene Dampens Local and Systemic Inflammation as well as Osteogenic Connective Tissue Progenitor Cell Activity in a Rat Model of Trauma-Induced Heterotopic Ossification LT Benjamin M. Wheatley, MD, Walter Reed National Military Medical Center *Presented by CPT Patrick D. Grimm, MD	
2:26 pm-2:32 pm	Targeted Reinnervation for the Orthopaedic Trauma Amputee Travis L. Frantz, MD, Ohio State University Wexner Medical Center	
2:32 pm-2:38 pm	Advanced Characterisation of Combat Related Heterotopic Ossification and In Vivo Feasibility Study of a Novel Therapy Major Neil M. Eisenstein, BMBCh MRCS, University of Birmingham, UK	
2:38 pm-2:44 pm	Proximal Femur Hounsfield Units on Computed Tomography Colonoscopy Accurately Predicts Low Bone Mineral Density: A Novel Osteoporosis Screening Technique LCDR Daniel L. Christensen, MD, Walter Reed National Military Medical Center *Presented by LCDR (Sel) Sameer Saxena, MD	
2:44 pm-2:50 pm	Discussion	
2:50 pm-3:10 pm	Break with Exhibitors (Princess Ballroom Salons D, E, F & G)	
Rapid Fire Session 1A: Trauma (Princess Ballroom Salon A) Moderators: Alexandra (Sandy) Schwartz, MD, University of California, San Diego CDR Bradley K. Deafenbaugh, MD, Naval Medical Center San Diego		
3:10 pm-3:14 pm	Assessment of Follow-Up and Osteoporosis Treatment in Patients with Fragility Fractures Capt Sean P. Moroze, MD, San Antonio Military Medical Center *Presented by Capt Matthew Mangini, MD	
3:14 pm-3:18 pm	A Comparative Study of Orthopedic and Radiology Reads of Orthopedic Injuries at a Level-One Trauma Center CPT Griffin M. Biedron, MD, William Beaumont Army Medical Center	
3:18 pm-3:22 pm	Incorporation of Familiar Surgical Instrumentation into a Modified Surgical Construct for Treating Pauwels III Femoral Neck Fractures Bernard P. Kemker, MD, Michigan State University	

3:22 pm-3:25 pm	Discussion
3:25 pm-3:29 pm	Outcomes Associated with Early Return to Work and Improved Functional Outcome after Ankle Fracture Fixation Michael David McKee, MD, FRCS(C), St. Michael's Hospital, University of Toronto *Presented by Niloofar Dehghan, MD, FRCSC
3:29 pm-3:33 pm	Outcomes of Early vs. Late Post-Operative Weightbearing in Patients Undergoing Surgical Fixation of Ankle Fractures: A Systematic Review and Meta Analysis Michael David McKee, MD, FRCS(C), St. Michael's Hospital, University of Toronto *Presented by Niloofar Dehghan, MD, FRCSC
3:33 pm-3:37 pm	Effect of Nonsteroidal Anti-Inflammatory Drugs (Nsaids) on Bone Healing Rates: A Meta-Analysis LT Benjamin M. Wheatley, MD, Walter Reed National Military Medical Center *Presented by Kyle E. Nappo, MD
3:37 pm-3:40 pm	Discussion
Moderators: CAPT	1B: War Trauma/Military Medicine (Princess Ballroom Salon B) (Ret) Michael J. Bosse, MD, Carolinas Medical Center Orthopaedics Brandon R. Horne, MD, Wright Patterson Air Force Base
Moderators: CAPT	(Ret) Michael J. Bosse, MD, Carolinas Medical Center Orthopaedics
Moderators: CAPT Col. B	(Ret) Michael J. Bosse, MD, Carolinas Medical Center Orthopaedics Brandon R. Horne, MD, Wright Patterson Air Force Base The Orthopedic Surgeon in the Field: An Update on Disaster Medicine
Moderators: CAPT Col. B 3:10 pm-3:14 pm	(Ret) Michael J. Bosse, MD, Carolinas Medical Center Orthopaedics Brandon R. Horne, MD, Wright Patterson Air Force Base The Orthopedic Surgeon in the Field: An Update on Disaster Medicine William H. Boyce, BA, Dartmouth College Epidemiology of Heterotopic Ossification Following Deployment Related Injury MAJ Jessica Cross Rivera, MD, US Army Institute of Surgical Research *Presented by CPT David J. Tennent, MD, San Antonio Military Medical
Moderators: CAPT Col. B 3:10 pm-3:14 pm 3:14 pm-3:18 pm	(Ret) Michael J. Bosse, MD, Carolinas Medical Center Orthopaedics Brandon R. Horne, MD, Wright Patterson Air Force Base The Orthopedic Surgeon in the Field: An Update on Disaster Medicine William H. Boyce, BA, Dartmouth College Epidemiology of Heterotopic Ossification Following Deployment Related Injury MAJ Jessica Cross Rivera, MD, US Army Institute of Surgical Research *Presented by CPT David J. Tennent, MD, San Antonio Military Medical Center Are Surgical Skills Under-Emphasized in Disaster Literature? A Literature Review

3:29 pm-3:33 pm	Characterization of US Military Orthopaedic Medical Readiness and Training Exercises: Not All MEDRETEs Are Created Equal CPT David J. Tennent, MD, San Antonio Military Medical Center
3:33 pm-3:37 pm	Demographics and Disparities within US Military Orthopaedic Surgery CPT Christopher M. Daniels, MD, Walter Reed National Medical Center
3:37 pm-3:40 pm	Discussion
Moderators: Steven Swedi	AC: Basic Science/Trauma (Princess Ballroom Salon C) In J. Morgan, MD, FACS, Mountain Orthopaedic Trauma Surgeons at sh Medical Center Colin Crickard, MD, Naval Medical Center Portsmouth
3:10 pm-3:14 pm	Inhibiting Protein – Protein Interaction as a Strategy for Epigenetic Targeting in Peripheral Nerve Regeneration CPT Christopher M. Daniels, MD, Walter Reed National Medical Center *Presented by LT Stephen Fernicola, MD
3:14 pm-3:18 pm	Evaluation of Factors Influencing Fixation of a Pauwels III Femoral Neck Fracture Using a Traid of Screws Sean Caskey, DO, McLaren Flint
3:18 pm-3:22 pm	Testosterone Levels in Anterior Cruciate Ligament Reconstruction vs. Arthroscopic Meniscal Debridement LT Matthew J. Wilson, MD, Naval Medical Center Portsmouth
3:22 pm-3:25 pm	Discussion
3:25 pm-3:29 pm	Glenoid Neck Hounsfield Units on Computed Tomography Can Accurately Identify Patients with Low Bone Mineral Density LT Kyle E. Nappo, MD, Walter Reed National Military Medical Center
3:29 pm-3:33 pm	Radiographic Relationship between the Lateral Tibial Plateau and Lateral Femoral Condyle in Normal Adult Knees Nima Kabirian, MD, University of Southern California *Presented by CAPT Mark E. Fleming, MD
3:33 pm-3:37 pm	Effect of Medical Comorbidities on Quadriceps Tendon Tear Morphology and Complexity LCDR Conor B. Garry, MD, Montefiore Medical Center
3:37 pm-3:40 pm	Discussion

 $\textbf{Rapid Fire Session 1D: Practice Management and Education} \ (\textit{Castile 1})$

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LtCo	ol Andrew W. Mack, MD, Walter Reed National Military Medical Center
3:10 pm-3:14 pm	Survey on Mental Health in Orthopedic Surgery Residents across North America LT Michelle M. Gosselin, MD, Washington University in Saint
	Louis/Barnes-Jewish Hospital
3:14 pm-3:18 pm	Risk of Burnout in Faculty and Resident Orthopaedic Surgeons at ACS Certified Level-1 Trauma Centers CPT David J. Tennent, MD, San Antonio Military Medical Center
3:18 pm-3:22 pm	AAOS Res Study Program and the Effectiveness on the Orthopedic In- Training Examination CPT Ian A. Mullikin, MD, San Antonio Military Medical Center
3:22 pm-3:25 pm	Discussion
3:25 pm-3:29 pm	A Preliminary Investigation of Risk Factors for Prolonged Opioid Use Following Anterior Cruciate Ligament Reconstruction LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center
3:29 pm-3:33 pm	Can a Bayesian Belief Network Be Used to Predict Prolonged Opioid Use after Anterior Cruciate Ligament Reconstruction? LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center
3:33 pm-3:37 pm	Musculoskeletal Injury Treatment and Resource Utilization in United States Military Veterans, Fiscal Year (FY) 2013-2015 Timothy C. Mauntel, PhD, ATC, Walter Reed National Military Medical Center
3:37 pm-3:40 pm	Discussion
Symposium 4: Orthopaedic Oncology Moderator: LtCol Dustin Lybeck, MD, San Antonio Military Medical Center	
3:45 pm-4:10 pm	Bone Tumors: The Good, Bad and Ugly - How to Avoid Errors in the Managements of Common Bone Tumors CAPT (Ret) Scott W. Helmers, MD, Southern California Permanente Medical Group
4:10 pm-4:15 pm	Discussion

Civilian Moderator:	CAPT (Ret) Scott W. Helmers, MD, Southern California Permanente Medical Group
Military Moderator:	LtCol Dustin Lybeck, MD, San Antonio Military Medical Center
4:15 pm-4:21 pm	External Validation of a Tool for Survival Estimation in Patients with Metastatic Bone Disease Treated with Surgical Fixation Utilizing a Military Health System Cohort LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center
4:21 pm-4:27 pm	External Validation of a Tool for Survival Estimation in Patients with Metastatic Bone Disease Treated with Radiation Utilizing a Military Health System Cohort LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center
4:27 pm-4:33 pm	Low Grade Central Osteosarcoma: A Single Institution Experience wit Long Term Follow Up LtCol Dustin Lybeck, MD, San Antonio Military Medical Center
4:33 pm-4:39 pm	Does Obesity Mask Soft Tissue Sarcoma Growth? Capt George A. Cibulas, PharmD, MD, University of Michigan
4:39 pm-4:45 pm	Discussion
4:45 pm-4:51 pm	Analysis of Patient Centered Orthopaedic Oncology Care at a Military Facility CPT Sean Kelly, MD, San Antonio Military Medical Center
4:51 pm-4:57 pm	Are All Femurs Created Equal? The Basis for Femoral Component Design of the Osseointegration Implant Solon L. Rosenblatt, MD, Macquarie University Hospital
4:57 pm-5:03 pm	Rate of Metabolic and Endocrine Abnormalities in Patients with Stress Fractures MAJ Daniel J. Song, MD, Landstuhl Regional Medical Center *Presented by MAJ Kevin P. Krul, MD, Tripler Army Medical Center
5:03 pm-5:09 pm	Development and Evaluation of Weight Bearing Bone Grafts <i>CPT David J. Tennent, MD, San Antonio Military Medical Center</i>
5:09 pm-5:15 pm	Discussion
5:15 pm-6:15 pm	Scientific E-Poster Session Tour (Presenters will be available to answ questions.) (<i>Princess Ballroom Salons A, B, C & Castile 1</i>)

Moderators: Station A - CDR Bradley K. Deafenbaugh, MD,

Naval Medical Center San Diego

Station B - LtCol Dustin Lybeck, MD, San Antonio

Military Medical Center

Station C - CDR James E. Hammond, DO,

Portsmouth Naval Hospital

Station D - MAJ E'Stephan Garcia MD, William

Beaumont Army Medical Center

6:15 pm -7:15 pm Multimedia Education Session (Princess Ballroom Foyer)

Wednesday, December 13 - Warren Kadrmas Memorial Sports Day

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

6:30 am-7:00 am Scientific E-Poster Session (Presenters will be available to answer

questions.) (Princess Ballroom Salons A, B, C & Castile 1)

6:30 am-4:55 pm Meeting Registration (*Princess Ballroom Foyer*)

Symposium 5: Sports - Knee

Moderator: Lt Col Ross A. Schumer, MD, San Antonio Military Medical Center

7:00 am-7:25 am ACL Reconstruction 2017: Pearls of Success!!!

Darren L. Johnson, MD, University of Kentucky Sports Medicine

7:25 am-7:30 am Discussion

General Session 5: Sports - Knee

Civilian Moderator: Darren L. Johnson, MD, *University of Kentucky Sports Medicine*Military Moderator: Lt Col Ross A. Schumer, MD, *San Antonio Military Medical Center*

7:30 am-7:36 am Meniscectomy and Resultant Articular Cartilage Lesions of the Knee in

Prospective National Football League Players: An Imaging and

Performance Analysis

CAPT Matthew T. Provencher, MD, The Steadman Clinic

7:36 am-7:42 am Surgical Repair of the Knee Extensor Mechanism: Are There Differences

in the Rates and Timing of Failure?

Capt Aaron M. Roberts, MD, University of Rochester

7:42 am-7:48 am Change in KOOS and WOMAC Scores over 4 Years in a Young, Athletic

Population With and Without Anterior Cruciate Ligament Injury

MAJ Ivan J. Antosh, MD, Dwight D. Eisenhower Army Medical Center

	*Presented by MAJ E'Stephan J. Garcia, MD, William Beaumont Army Medical Center
7:48 am-7:54 am	The Effect of Whipstitich Suture on Pullout Strength for Tibial Interference Fixation of Anterior Cruciate Ligament Soft Tissue Grafts LT Ethan Bernstein, MD, MPH, Naval Medical Center San Diego *Presented by ENS Kevin Taniguchi, BA, Uniformed Services University of the Health Sciences School of Medicine
7:54 am-7:59 am	Discussion
7:59 am-8:05 am	Clinical Outcomes of Multiple Osteochondral Allograft Transplantation of the Knee: An Analysis of Snowman Technique and Multifocal Lesions <i>Brian R. Waterman, MD, Wake Forest Baptist</i> * <i>Presented by Eric Cotter, BS</i>
8:05 am-8:11 am	Return to Duty after ACL Reconstruction: Are They Getting and Staying Back in the Fight? MAJ Jay B. Cook, MD, Winn Army Community Hospital
8:11 am-8:17 am	Return to Duty after Multiligamentous Knee Reconstructions in Active Duty Service Members CPT Robert C. Turner, MD, Tripler Army Medical Center
8:17 am-8:23 am	MRI-Based Analysis of Knee Composition Is Correlated with Outcomes after Anterior Cruciate Ligament Reconstruction Capt Kartik Shenoy, MD, NYU Hospital for Joint Diseases
8:23 am-8:29 am	Anterior Cruciate Ligament Graft Removal versus Retention in the Setting of Septic Arthritis following Reconstruction: A Systematic Review and Expected Value Decision Analysis <i>CPT David R. Peterson, MD, Tripler Army Medical Center</i>
8:29 am-8:35 am	Discussion
8:35 am-8:55 am	Break with Exhibitors (Princess Ballroom Salons D, E, F & G)
Moderators: CAPT	2A: Shoulder and Elbow (Princess Ballroom Salon A) John-Paul H. Rue, MD, Mercy Medical Center Stephen A. Parada, MD, Dwight D. Eisenhower Army Medical Center
8:55 am-8:59 am	Outcome Measures Following Medial Ulnar Collateral Ligament Reconstructions in a Military Population John B. Fuller, MD, William Beaumont Army Medical Center

8:59 am-9:03 am	Return to Sporting Activity after Ulnar Nerve Transposition for Isolated Neuritis in Competitive Overhead Brian R. Waterman, MD, Wake Forest Baptist *Presented by Michael C. O'Brien, MA, BS
9:03 am-9:07 am	Incidence of Cubital Tunnel Syndrome in the US Military Population CPT Andrew G. Chan, MD, MPH, William Beaumont Army Medical Center *Presented by John J. Pisquiy, MHA, Paul L. Foster School of Medicine
9:07 am-9:10 am	Discussion
9:10 am-9:14 am	Mid-Term Functional Outcomes and Complications Following Pectoralis Major Tendon Reconstruction in Active Duty Military Personnel CPT Drew W. Nute, MD, William Beaumont Army Medical Center/Texas Tech
9:14 am-9:18 am	High Tensile Strength Tape vs. High Tensile Strength Suture in Labral Repair and Capsulorrhaphy: A Biomechanical Study LT Nicholas P. Lopreiato, MD, Naval Medical Center San Diego
9:18 am-9:22 am	Biomechanical Evaluation of Unicortical Stress Risers of the Proximal Humerus Associated with Pectoralis Major Repair CPT Brian P. Milam, MD, Madigan Army Medical Center
9:22 am-9:25 am	Discussion
Moderators: MAJ	2B: Sports Injuries – Hip (Princess Ballroom Salon B) E'Stephan Garcia MD, William Beaumont Army Medical Center Jeffrey R. Giuliani, MD, Walter Reed National Military Medical Center
8:55 am-8:59 am	The Effect of Previous Methylphenidate Use on Incidence of Stress Fractures in Military Recruits: A Retrospective Cohort CPT Haggai Schermann, MD, Tel-Aviv Sourasky Medical Center
8:59 am-9:03 am	Tension-Sided Femoral Neck Stress Fractures: Nonoperative Treatment without Progression Tension-Sided Femoral LT Kyle Mombell, MD, Naval Medical Center San Diego
9:03 am-9:07 am	Radiographic, Histologic, and Clinical Characteristics of Patients with Paralabral Ossicles in Femoroacetabular Impingement LCDR Daniel L. Christensen, MD, Walter Reed National Military Medical Center *Presented by CPT Michael Elsenbeck, MD
9:07 am-9:10 am	Discussion

9:10 am-9:14 am	Surgical Variables That Predict Successful Outcomes after Arthroscopic Surgery for Femoroacetabular Impingement COL Bryant G. Marchant, MD, Madigan Army Medical Center
9:14 am-9:18 am	Influence of Joint Hypermobility on Patient-Reported Outcomes after Hip Arthroscopy for Femoroacetabular Impingement Syndrome Brian R. Waterman, MD, Wake Forest Baptist *Presented by Gift Ukwuani, MD
9:18 am-9:22 am	Longer Preoperative Symptom Duration Leads to Lower Patient Satisfaction and Worse Function after Hip Arthroscopy Brian R. Waterman, MD, Wake Forest Baptist *Presented by Gift Ukwuani, MD
9:22 am-9:25 am	Discussion
Moderators: COL (C: Shoulder Instability (Princess Ballroom Salon C) Ret) Dean C. Taylor, MD, Duke University Medical Center Kelly G. Kilcoyne, MD, William Beaumont Army Medical Center
8:55 am-8:59 am	Tobacco Use Is a Risk Factor for Recurrent Dislocation after Arthroscopic Bankart Repairs MAJ Kevin P. Krul, MD, Tripler Army Medical Center
8:59 am-9:03 am	Incidence of Bone Loss in Circumferential Lesions of the Glenoid Labrum CPT Henry H. Yu, MD, Madigan Army Medical Center
9:03 am-9:07 am	Surgical Implications of the Distal Tibia Morphology for Glenoid Augmentation CPT Colleen M. Moreland, DO, Dwight D. Eisenhower Army Medical Center
9:07 am-9:10 am	Discussion
9:10 am-9:14 am	Pathoanatomy and Bone Loss Associated with First-Time and Recurrent Anterior Shoulder Instability in Collegiate Athletes: A Prospective Multicenter Study MAJ Jonathan F. Dickens, MD, Walter Reed National Military Medical Center
9:14 am-9:18 am	Baseline Functional Scores in Soldiers Undergoing Arthroscopic Shoulder Stabilization CPT Zackary A. Johnson, MD, Tripler Army Medical Center

9:18 am-9:22 am The Arthroscopic West Point Technique: An Arthroscopic Load Shift for

Assessing a Balanced Shoulder

CPT Donald R. Fredericks, MD, Walter Reed National Military Medical

Center

9:22 am-9:25 am Discussion

Rapid Fire Session 2D: Shoulder and Biceps (Castile 1)

Moderators: COL Mark P. Pallis, DO, William Beaumont Army Medical Center

CDR James E. Hammond, DO, Portsmouth Naval Hospital

8:55 am-8:59 am Arthroscopic Treatment of Posterior Shoulder Instability With and

Without Glenoid Dysplasia

MAJ Joseph W. Galvin, DO, Blanchfield Army Community Hospital

8:59 am-9:03 am Incidence of Bone Deficiency in Patients with Posterior Glenohumeral

Instability

CPT Jared A. Wolfe, MD, Walter Reed National Military Medical Center

9:03 am-9:07 am The Results of Posterior Labral Repairs in Baseball Players with

Minimum 2-Year Follow-Up

Capt Timothy P. McCarthy, MD, Emory University

9:07 am-9:10 am Discussion

9:10 am-9:14 am Patient Preferences for Treatment of Shoulder and Proximal Biceps

Disorders Are Associated with Patient Age, Race, Sex and Activity Level

LT Michelle M. Gosselin, MD, Washington University in Saint

Louis/Barnes-Jewish Hospital

9:14 am-9:18 am High Return to Preoperative Military Function after Arthroscopic

Panlabral Repairs for Complex Shoulder Instability

CPT Andrew G. Chan, MD, MPH, William Beaumont Army Medical

Center

9:18 am-9:22 am Risk Factors for Failure of Non-Operative Treatment of Posterior Labral

Tears

LCDR Daniel L. Christensen, MD, Walter Reed National Military Medical

Center

*Presented by CPT Michael Elsenbeck, MD

9:22 am-9:25 am Discussion

Symposium 6: Sports - Foot and Ankle

Moderator: LTC Thomas C. Dowd, MD, San Antonio Military Medical Center

9:30 am-9:55 am Athletic Foot and Ankle Injuries: Treating the Active Duty Service

Member like the Elite Athlete

Robert B. Anderson, MD, Ortho Carolina Foot and Ankle Institute

9:55 am-10:00 am Discussion

General Session 6: Sports - Foot and Ankle

Civilian Moderator: Robert B. Anderson, MD, Ortho Carolina Foot and Ankle Institute LTC Thomas C. Dowd, MD, San Antonio Military Medical Center Military Moderator:

10:00 am-10:06 am Achilles Tendinopathy Outcomes within the Active Duty Population

CPT Gregory E. Lausé, MD, Tripler Army Medical Center

10:06 am-10:12 am Does Clinical Exam and Ultrasound Correlate with MRI Findings When

Assessing Tendon Approximation in Acute Achilles Tendon Tears? A

Clinical Study

CPT Justin J. Ernat, MD, Blanchfrield Army Community Hospital

*Presented by MAJ John D. Johnson, MD, Tripler Army Medical Center

10:12 am-10:18 am Ultrasound Measurement of the Achilles Tendon in an Asymptomatic

Elite Military Population: Cross Sectional Area of the Achilles Tendon in

a Prospective Cohort of an Elite Military Population

MAJ Kevin D. Martin, DO, Evans Army Community Hospital *Presented by 2LT Jeffrey L. Wake, BS, Rocky Vista University

10:18 am-10:24 am Discussion

10:24 am-10:30 am Outcomes of Particulated Juvenile Cartilage Transplantation for

Osteochondral Lesions of the Talus in a High-Demand Population

CPT Kenneth Heida, MD, William Beaumont Army Medical Center

10:30 am-10:36 am Ankle Distraction Arthroplasty Compared to Other Cartilage Preservation

Procedures in Patients with Post Traumatic Arthritis: A Systematic

Review

Capt Jason A. Beachler, MD, San Antonio Military Medical Center

10:36 am-10:42 am Outcomes Following Modified Brostrom Procedure for Chronic Lateral

Ankle Instability with and Without Peroneal Tendon Exploration/Repair

CPT Brian P. Milam, MD, Madigan Army Medical Center

10:42 am-10:48 am Discussion

10:48 am-11:08 am Break with Exhibitors (Princess Ballroom Salons D, E, F & G)

Seminar 1: Joint-Service Research Initiative - MOTION

MAJ Jonathan F. Dickens, MD, Walter Reed National Military Medical Center Moderator:

11:08 am-12:20 pm Joint-Service Research Initiative

MAJ Jonathan F. Dickens, MD, Walter Reed National Military Medical

Center

RADM Bruce L. Gillingham, MD, USN, Deputy Chief, Readiness and Health Directorate, Chief Quality Officer, Bureau of Medicine and

Surgery

12:20 pm-12:30 pm Discussion

12:35 pm-1:35 pm SOMOS Luncheon – Industry Presentation

Stryker (*Princess Ballroom Salons A*) Vericel (*Princess Ballroom Salons B*) Arthrex (*Princess Ballroom Salons C*)

Pacira (Castile 1)

Symposium 7: Sports Injuries

Moderator: MAJ Kelly G. Kilcoyne, MD, William Beaumont Army Medical Center

1:35 pm-2:00 pm Patient-Centered Leadership as seen Through Shoulder Instability

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

2:00 pm-2:05 pm Discussion

General Session 7: Sports Injuries

Civilian Moderator: COL (Ret) Dean C. Taylor, MD, Duke University Medical Center

Military Moderator: MAJ Kelly G. Kilcoyne, MD, William Beaumont Army Medical Center MAJ E'Stephan Garcia MD, William Beaumont Army Medical Center

With E Stephan Sareta Wills, William Beaumont II my Meateur Cente

2:05 pm-2:11 pm Shoulder Injection Prior to Rotator Cuff Repair Is Associated with

Increased Risk of Subsequent Surgery

Capt Sophia A. Traven, MD, Medical University of South Carolina

2:11 pm-2:17 pm Enhanced Multi-Modal Analgesia Pathway Associated with Reduced 90-

Day Opioid Prescribing after Elective Sports Orthopaedic Surgery MAJ Jeanne C. Patzkowski, MD, Tripler Army Medical Center

2:17 pm-2:23 pm Using the Kerlan Jobe Orthopaedic Shoulder Score to Predict Future

Injury in Professional Baseball Pitchers

LT Vanna Rocchi, DO, Naval Medical Center San Diego

2:23 pm-2:29 pm Intraoperative Evaluation of SLAP Tear Morphology: A Retrospective

Review

LT Hannah E. Kirby, MD, Naval Medical Center San Diego

2:29 pm-2:35 pm Discussion

2:35 pm-2:41 pm	Liposomal Bupivacaine versus Bupivacaine with Fascia Iliaca Blockade for Perioperative Pain Management during Hip Arthroscopy: A Double-Blinded Prospective Randomized Control Trial CPT Patrick D. Grimm, MD, Walter Reed National Military Medical Center
2:41 pm-2:47 pm	Circumferential Labral Reconstruction with ITB Allograft: A Viable Option for Patients with Missing or Severely Compromised Labral Tissue? 2LT John P. Scanaliato, BS, Uniformed Services University of the Health Sciences School of Medicine
2:47 pm-2:53 pm	Mid to Long-Term Follow-Up of MRI Proven Acetabular Labral Pathology in Previously Asymptomatic Patients LtCol Matthew R. Schmitz, MD, San Antonio Military Medical Center
2:53 pm-2:59 pm	Hip Arthroscopy for Femoroacetabular Impingement in a Military Population LT Ethan Bernstein, MD, MPH, Naval Medical Center San Diego *Presented by LT Martin Collier, MD, Keller Army Community Hospital
2:59 pm-3:05 pm	Discussion
3:05 pm-3:20 pm	Refreshment Break (Princess Ballroom Foyer)
Seminar 2: Transitioning Your Practice from Military to Civilian Moderator: CAPT John-Paul H. Rue, MD, Mercy Medical Center	
3:20 pm-4:50 pm	Things to Appreciate When You're in the Military; What to Look for When You Are Finding Civilian Employment; How to Get the Most Out of It When You're There Panel: CDR Leo T. Kroonen MD, Permanente Medical Group COL (Ret) Tad Gerlinger, MD, Rush University
4:50 pm-5:50 pm	Scientific E-Poster Session (Presenters will be available to answer questions.) (<i>Princess Ballroom Salons A, B, C & Castile 1</i>)
5:50 pm-6:50 pm	Multimedia Education Session (Princess Ballroom Foyer)

Thursday, December 14

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

6:00 am-7:00 am **Service Breakouts**

Air Force (Castile 5)

Army (Princess Ballroom Salons H & I) Navy (Princess Ballroom Salon C)

6:00 am-12:00 pm Meeting Registration (*Princess Ballroom Foyer*)

Symposium 8: Adult Reconstruction

Moderator: LCDR Brian T. Barlow, MD, Naval Medical Center San Diego

7:15 am-7:40 am Update in Total Joint Replacement

James V. Bono, MD, New England Baptist Hospital

7:40 am-7:45 am Discussion

General Session 8: Adult Reconstruction

Civilian Moderator: James V. Bono, MD, New England Baptist Hospital

Military Moderator: LCDR Brian T. Barlow, MD, Naval Medical Center San Diego

7:45 am-7:51 am Fewer Complications Following Revision Hip and Knee Arthroplasty in

Patients with Normal Vitamin D Levels

Capt Sophia A. Traven, MD, Medical University of South Carolina

7:51 am-7:57 am Acetabular Placement Accuracy with the Direct Anterior Approach Free-

Hand Technique

Melissa C. Soderquist, BS, Georgetown University School of Medicine

7:57 am-8:03 am Does Periarticular Infiltration of a Local Anesthetic Cocktail Have Similar

Efficacy as a Continuous Femoral Nerve Block During the First Two Days

after Total Knee Arthroplasty

LT Michael A. Quacinella, DO, MPH, Naval Medical Center San Diego

*Presented by LCDR Brian T. Barlow, MD

Following Total Knee Arthroplasty?

COL (Ret) Tad Gerlinger, MD, Rush University

8:09 am-8:15 am Discussion

8:15 am-8:21 am Geographic Trends in Total Joint Arthroplasty in the Military Health

System

LT Ashley B. Anderson, MD, Walter Reed National Military Medical

Center

8:21 am-8:27 am Enhanced Multi-Modal Analgesia Pathway Associated with Reduced

Hospital Length of Stay after Total Knee Arthroplasty

MAJ Michael S. Patzkowski, MD, Tripler Army Medical Center

8:27 am-8:33 am	Mechanical Knee Alignment in Osteoarthritic Knees versus Non-Arthritic Knees: What is a Normal Joint Line?	
	LCDR Brian T. Barlow, MD, Naval Medical Center San Diego	
8:33 am-8:39 am	Return to Active Duty After Total Knee and Total Hip Arthroplasty LT Alanna B. Balboni, MD, Naval Medical Center Portsmouth	
8:39 am-8:45 am	Discussion	
8:45 am-8:55 am	Refreshment Break (Princess Ballroom Foyer)	
Rapid Fire Session 3A: Adult Reconstruction/Infection (Princess Ballroom Salon A) Moderators: James V. Bono, MD, New England Baptist Hospital LCDR Brian T. Barlow, MD, Naval Medical Center San Diego		
8:55 am-8:59 am	Is Outpatient Unicompartmental Knee Arthroplasty Safe to Perform at an Ambulatory Surgery Center? A Comparative Study of Early Post-Operative Complications MAJ John P. Cody, MD, Walter Reed National Military Medical Center *Presented by CPT Richard L. Purcell, MD	
8:59 am-9:03 am	The Shift to Same-day Outpatient Joint Arthroplasty: A Systematic Review CPT Nicholas J. Zarkadis, DO, William Beaumont Army Medical	
9:03 am-9:07 am	Total Hip Arthroplasty Perioperative Factors and Their Predictive Value for Patient Discharge Destination LCDR Cory F. Janney, MD, University of Texas Medical Branch at Galveston	
9:07 am-9:11 am	Return to Duty Following Periacetabular Osteotomy Capt Andrew S. Murtha, MD, San Antonio Military Medical Center	
9:11 am-9:14 am	Discussion	
9:14 am-9:18 am	Septic Olecranon and Prepatellar Bursitis: A Single Center Experience CPT James B. Deal, MD, Tripler Army Medical Center *Presented by CPT Aaron S. Vaslow, MD	
9:18 am-9:22 am	Rapid and Convenient Decontamination of Thyroid Shields LT Chihua Lee, MD, Naval Medical Center Portsmouth	
9:22 am-9:25 am	Discussion	

 $\textbf{Rapid Fire Session 3B: Hand and Wrist} \ (Princess \ Ballroom \ Salon \ B)$

	Dominic T. Gomez-Leonardelli, MD, Naval Medical Center San Diego Emily A. Gilley, MD, Naval Hospital Camp Pendleton		
8:55 am-8:59 am	Underutilization of Upper Extremity Reconstruction for Persons with Tetraplegia: The Patient Perspective Maj Julia A.V. Nuelle, MD, Loyola University Medical Center		
8:59 am-9:03 am	Outcomes of Metacarpal Fractures with Associated Behavioral Health Diagnosis MAJ Seon A. Jones, MPAS, PA-C, Brooke Army Medical Center		
9:03 am-9:07 am	Wrist Arthroscopy for the Treatment of Scapholunate (SL) Predynamic Instability and Return to Duty CPT Christopher Belyea, MD, MBA, Tripler Army Medical Center		
9:07 am-9:10 am	Discussion		
9:10 am-9:14 am	Processed Nerve Allograft Utilization in Peripheral Nerve Reconstruction: Continued Analysis 2LT Andrew J. Lopez, BS, Uniformed Services University of Health Sciences		
9:14 am-9:18 am	Perilunate Dislocations and Fracture Dislocations in the United States Military Logan R. Koehler, MD, William Beaumont Army Medical Center		
9:18 am-9:22 am	Delayed and Nonunion of Distal Radius Fractures in a Military Population CPT Christopher M. Daniels, MD, Walter Reed National Medical Center *Presented by LT Stephen Fernicola, MD		
9:22 am-9:25 am	Discussion		
Rapid Fire Session 3C: Pediatrics (Princess Ballroom Salon C) Moderators: Anthony I. Riccio, MD, Texas Scottish Rite Hospital LTC S. Imran Ahmed, MD, Ft. Belvoir			
8:55 am-8:59 am	Accuracy of Robot-Assisted Pedicle Screw Insertion in Adolescent Idiopathic Scoliosis: Is Triggered Electromyographic Pedicle Screw Stimulation Necessary? CPT Kenneth A. Shaw, DO, Dwight D. Eisenhower Army Medical Center		
8:59 am-9:03 am	Reliability of Shoulder Height Assessment in Adolescent Idiopathic Scoliosis MAJ Daniel G. Kang, MD, Madigan Army Medical Center *Presented by CPT Justin C. Anderson, MD		

9:03 am-9:07 am	Discussion		
9:07 am-9:11 am	ACL Reconstruction in Adolescents: Midterm Results Using a Combined Biologic Approach Paul R. Fleissner, MD, Crystal Clinic Orthopedic Center		
9:11 am-9:15 am	Growth Arrest after Transphyseal ACL Reconstruction in Skeletally Immature Pubescent Adolescents: Are Transphyseal Independent Femoral Tunnels Safe? CPT Thomas J. Melton, MD, Madigan Army Medical Center		
9:15 am-9:19 am	Adolescent Kienbock Disease: Outcomes of Surgical Intervention Maj Julia A.V. Nuelle, MD, Loyola University Medical Center		
9:19 am-9:25 am	Discussion		
Rapid Fire Session 3D: Spine (Castile 1) Moderators: MAJ Melvin D. Helgeson, MD, Walter Reed National Military Medical Center LCDR David M. Glassman, MD, Naval Medical Center San Diego			
8:55 am-8:59 am	Blood Transfusion Associated with Surgery for Adolescent Idiopathic Scoliosis Should Be a Rare Event COL(Ret) Robert P. Stanton, MD, Nemours Children's Hospital		
8:59 am-9:03 am	Effect of Lordotic Cages on Foraminal Volume: A Finite Element Analysis Col (Ret) David W. Polly Jr., MD, University of Minnesota		
9:03 am-9:07 am	Percutaneous Pedicle Screws in the Obese: Should the Skin Incision Be More Lateral? LT Kyle Mombell, MD, Naval Medical Center San Diego		
9:07 am-9:10 am	Discussion		
9:10 am-9:14 am	Disparities in Access to Spine Surgery among Active Duty Beneficiaries in the Military Health System LCDR George C. Balazs, MD, Walter Reed National Military Medical Center		
9:14 am-9:18 am	Impact of Implant Density on Curve Correction for Large Stiff Idiopathic Scoliosis Curves CPT Gregory E. Lausé, MD, Tripler Army Medical Center		
9:18 am-9:22 am	Tranexamic Acid (TXA) in Thoracic and Lumbar Fusions and Perioperative Blood Loss Nathan Wanderman, MD, Mayo Clinic		

*Presented by Col Brett A. Freedman, MD

Discussion 9:22 am-9:25 am

AAOS Report

Moderator: CAPT Charles E. Craven Jr., MD, Naval Medical Center San Diego

9:30 am-9:50 am AAOS Update

William J. Maloney III, MD, AAOS President, Stanford School of

Medicine

9:50-10:00 am **Discussion and Questions**

Business & Strategic Planning Meeting

CAPT Charles E. Craven Jr., MD, Naval Medical Center San Diego Moderator:

10:00 am-10:10 am **Business Meeting**

10:10 am-10:20 am Strategic Planning Meeting

10:20 am-10:30 am Refreshment Break (Princess Ballroom Foyer)

Symposium 9: Shoulder

Moderator: CDR James E. Hammond, DO, Portsmouth Naval Hospital

10:30 am-10:55 am Rotator Cuff Repair: Advanced Techniques Including Convergence, Nerve

Decompression, SCR and RM Patches; When and How

(Buddy) Felix H. Savoie III, MD, Tulane University

10:55 am-11:00 am Discussion

General Session 9: Shoulder

(Buddy) Felix H. Savoie III, MD, Tulane University Civilian Moderator:

CDR James E. Hammond, DO, Portsmouth Naval Hospital Military Moderator:

11:00 am-11:06 am Using Pre-Injury and Post-Injury MRI for Quantification of Glenoid Bone

> Loss after First-Time and Recurrent Anterior Glenohumeral Instability CPT Sean E. Slaven, MD, Walter Reed National Military Medical Center

11:06 am-11:12 am PROMIS for Patients Undergoing Arthroscopic Shoulder Surgery in the

Military: Multidimensional Assessment as Standard of Care

Matthew N. Millington, BS, Walter Reed National Military Medical Center

11:12 am-11:18 am Complications and Reoperation Rates Following Latarjet Procedure in the

US Military

ENS William R. Shannon, BS, George Washington University School of Medicine 11:18 am-11:24 am Glenoid Track Instability Management Score: Radiographic Modification of The Instability Severity Index Score (ISIS) CAPT Matthew T. Provencher, MD, The Steadman Clinic 11:24 am-11:30 am Discussion 11:30 am-11:36 am Midterm Functional and Radiographic Outcomes of Total Shoulder Arthroplasty in Patients with a B2 Glenoid Addressed with Corrective Reaming LT Michelle M. Gosselin, MD, Washington University in Saint Louis/Barnes-Jewish Hospital 11:36 am-11:42 am Salvage of Failed Hemi- and Total to Reverse Shoulder Arthroplasty: Clinical Improvement despite Increased Short-Term Risk of Reoperation Brian R. Waterman, MD, Wake Forest Baptist *Presented by Robert S. Dean, BS, Midwest Orthopaedics at Rush 11:42 am-11:48 am Midterm Functional Outcomes of Total Shoulder Arthroplasty in Patients with a B2 Glenoid Addressed with a Reversed Offset Humeral Head LT Michelle M. Gosselin, MD, Washington University in Saint Louis/Barnes-Jewish Hospital 11:48 am-11:54 am Clinical Outcomes and Activity Levels after Anatomic Total Shoulder Arthroplasty with an Inlay Glenoid Component in an Active, Young Patient Population Brian R. Waterman, MD, Wake Forest Baptist *Presented by Michael C. O'Brien, MA, BS Discussion 11:54 am-12:00 pm 12:00 pm-1:30 pm Scientific E-Poster Session (Presenters will be available to answer questions.) (Princess Ballroom Salons A, B, C & Castile 1) 1:30 pm-2:30 pm **Multimedia Education Session** (Princess Ballroom Foyer)

Friday, December 15

12:00 am-11:55 am Speaker Ready Area (*Princess Ballroom Foyer*)

6:30 am-7:00 am **Scientific E-Poster Session** (Presenters will be available to answer questions.) (*Princess Ballroom Salons A, B, C & Castile 1*)

6:30 am-11:55 am Meeting Registration (*Princess Ballroom Foyer*)

Symposium 10: Jamie Dianne Bulken-Hoover Memorial Hand Session

Moderator: LCDR Dominic T. Gomez-Leonardelli, MD, Naval Medical Center San Diego

7:00 am-7:25 am Elbow Arthritis Options: TEA to Interposition

Scott P. Steinmann, MD, Mayo Clinic

7:25 am-7:30 am Discussion

General Session 10: Hand and Upper Extremity

Civilian Moderator: Scott P. Steinmann, MD, Mayo Clinic

Military Moderator: LCDR Dominic T. Gomez-Leonardelli, MD, Naval Medical Center San

Diego

7:30 am-7:36 am Functional Outcomes of Thumb Trapeziometacarpal Arthrodesis with a

Locked Plate Versus Ligament Reconstruction and Tendon Interposition

LCDR K. J. Hippensteel, MD, Washington University, Saint Louis

7:36 am-7:42 am The Effect of Dorsal Screw Prominence in the Radial Shaft of Distal

Radius Fractures Treated with Volar Locked Plating

LCDR Nicholas Pulos, MD, Mayo Clinic

7:42 am-7:48 am Derotational Pronation-Producing Osteotomy of the Radius and Biceps

Tendon Rerouting for Supination Contractures

Capt Casey Dedeugd, MD, Mayo Clinic

7:48 am-7:54 am Relative Tissue Oxygenation Changes Are More Reliable Than Clinical

Exam or Temperature Changes for Detecting Early Tissue Ischemia MAJ Elizabeth M. Polfer, MD, Walter Reed National Military Medical

Center

*Presented by MAJ Jennifer M. Sabino, MD, Johns Hopkins Hospital

7:54 am-8:00 am Discussion

8:00 am-8:06 am Suture-Button Stabilization Following Ring Finger Ray Amputation: A

Comparative Biomechanical Study

MAJ Emily Morgan, MD, Landstuhl Regional Medical Center

*Presented by MAJ Anthony M. Barcia, MD

8:06 am-8:12 am Primary Medial Femoral Condyle Free Vascularized Bone Graft for the

Treatment of Scaphoid Nonunions with Carpal Collapse and Proximal

Pole Avascular Necrosis

LCDR Nicholas Pulos, MD, Mayo Clinic

8:12 am-8:18 am	The Role of Medial Femoral C	Condyle Free V	Vascularized Bone Graft for
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the Treatment of Failed Scaphoid Nonunion Surgery associated with

Proximal Pole Avascular Necrosis

LCDR Nicholas Pulos, MD, Mayo Clinic

8:18 am-8:24 am Matti-Russe Technique for Scaphoid Nonunions in Pediatric Patients

CAPT Irshad A. Shakir, MD, Saint Louis University

8:24 am-8:30 am Discussion

Symposium 11: Spine

Moderator: MAJ Melvin D. Helgeson, MD, Walter Reed National Military Medical Center

8:30 am-8:55 am The Sacroiliac Joint - The Link Between the Hip and Spine

Col (Ret) David W. Polly Jr., MD, University of Minnesota

8:55 am-9:00 am Discussion

9:00 am-9:15 am Refreshment Break (Princess Ballroom Foyer)

General Session 11: Spine

Civilian Moderator: Col (Ret) David W. Polly Jr., MD, University of Minnesota

Military Moderator: MAJ Melvin D. Helgeson, MD, Walter Reed National Military Medical

Center

9:15 am-9:21 am Spine Surgery in Patients with Previous THA: Should We Fuse the Spine

First?

LT Shian Liu, MD, Camp Pendleton

9:21 am-9:27 am The Impact of Translation and Stenosis

LCDR David M. Glassman, MD, Naval Medical Center San Diego

9:27 am-9:33 am Comorbid Mental Health Disorders Are Associated with Poor Outcomes

after Cervical Spine Surgery at 2-Year Follow-Up

LT Shian Liu, MD, Camp Pendleton

9:33 am-9:39 am Routine Microscope Use Does Not Increase Operative Time or Affect

Short Term Outcomes in Single Level Lumbar Microdecompression

LCDR Patrick B. Morrissey, MD, Rothman Institute

9:39 am-9:45 am Discussion

9:45 am-9:51 am Four and Five-Level Anterior Cervical Discectomy and Fusion with Plate

Fixation: Radiographic and Clinical Results

LCDR Theodore J. Steelman, MD, Walter Reed National Military Medical

Center

9:51 am-9:57 am Re-Operation Following Sacral Alar-Iliac (S2AI) versus Traditional Iliac

Pelvic Fixation

MAJ Daniel G. Kang, MD, Madigan Army Medical Center

*Presented by CPT Justin C. Anderson, MD

9:57 am-10:03 am Intraoperative Pedicle Screw Navigation Does Not Significantly Decrease

Complications after Spine Surgery

LCDR Scott C. Wagner, MD, Rothman Institute

10:03 am-10:09 am Number of Levels Fused Does Not Affect C5 Palsy Rate after Anterior

Cervical Discectomy and Fusion

LCDR Scott C. Wagner, MD, Rothman Institute

10:09 am-10:15 am Discussion

10:15 am-10:25 am Refreshment Break (Princess Ballroom Foyer)

Symposium 12: Pediatrics

Moderator: Lt Col Matthew R. Schmitz, MD, FAAP, San Antonio Military Medical Center

10:25 am-10:50 am Pediatric Spine Trauma: The Texas Scottish Rite Hospital Experience

Anthony I. Riccio, MD, Texas Scottish Rite Hospital

10:50 am-10:55 am Discussion

General Session 12: Pediatrics

Civilian Moderator: Anthony I. Riccio, MD, Texas Scottish Rite Hospital

Military Moderator: Lt Col Matthew R. Schmitz, MD, FAAP, San Antonio Military Medical

Center

10:55 am-11:01 am Does Pre-Culture Antibiotic Administration Lead to Non-Diagnostic Bone

and Joint Culture Results in Pediatric Osteomyelitis and Septic Arthritis:

A 12-Year Retrospective Review

Capt Michael Basso-Williams, DO, MPH, Riverside University Health

System Medical Center

11:01 am-11:07 am Increased Radiation Exposure in Patients Treated with Intramedullary

Fixation Versus Spica Casting for Pediatric Femur Fractures *Philip A. Ashley, MD, Texas Scottish Rite Hospital for Children*

Friendly Spinal Implants? An Analysis of the National Surgical Quality

Improvement Program – Pediatrics

CPT Kenneth A. Shaw, DO, Dwight D. Eisenhower Army Medical Center

11:13 am-11:19 am	Perioperative Outcomes Following Surgical Treatment of the Neuromuscular Hip: An Analysis of the National Surgical Quality Improvement Program – Pediatrics CPT Kenneth A. Shaw, DO, Dwight D. Eisenhower Army Medical Center
11:19 am-11:25 am	Discussion
11:25 am-11:31 am	Fracture Risk through Oblique External Fixator Pin Tracts CPT Shawn M. Gee, MD, Tripler Army Medical Center
11:31 am-11:37 am	High Rate of Inappropriate Referrals to Pediatric Orthopaedics in an Egalitarian Health Care System LT Ashley B. Anderson, MD, Walter Reed National Military Medical Center
11:37 am-11:43 am	Does the Increasing Rate of Transfer of Displaced Supracondylar Fractures in Children to Trauma Centers Increase Value? <i>CAPT (Ret) William L. Hennrikus, MD, Penn State College of Medicine</i>
11:43 am-11:49 am	Prenatal Factors Affecting Early Childhood Fracture Risk CPT Jared A. Wolfe, MD, Walter Reed National Military Medical Center
11:49 am-11:55 am	Discussion
11:55 am-12:55 pm	Multimedia Education Session (Princess Ballroom Foyer)

2017 E-Poster Presentations

STATION A (Princess Ballroom Salon A)

Basic Science

Poster 1

Analysis of Development of Post-Traumatic Osteoarthritis in a Sheep (Ovis Aries) Model Utilizing EPIC Microct

Capt Ian P. Goodman, MD, San Antonio Military Medical Center

Trauma

Poster 2

Ballistic Fractures to the Sacrum and Innominate Did Not Require Operative Fixation in a Large Case Series at a Level I Trauma Center

Mary Kate Erdman, MD, LAC and USC Medical Center

Poster 3

Incidence of Vacuum Phenomenon Related Intra-Articular or Subfascial Gas Found on Computer Assisted Tomography (CT) Scans of Closed Lower Extremity Fractures Lt Col Christopher LeBrun, MD, R Adams Cowley Shock Trauma Center

Poster 4

Closed Lateral Pan-Talar Dislocation with Associated Lateral Talar Process and Medial Malleolus Fractures: A Traumatology Case Report with Technical Notes *Kurt Madzunovic, DO, Chicago Osteopathic Orthopedic Residency/ Midwestern University*

Poster 5

Pre-Hospital Advanced Therapies for Control of Hemorrhage (PATCH): Pilot Study Results *Capt Sarah N. Pierrie, MD, Carolinas Medical Center*

Poster 6

The Psychology of Limb Loss and the Effects on Post-Operative Pain Solon L. Rosenblatt, MD, Macquarie University Hospital

Poster 7

Increased Anterior Column Exposure Using the Anterior Intrapelvic Approach Combined with an Anterior Superior Iliac Spine (ASIS) Osteotomy: A Cadaveric Study Maj Andrew J. Sheean, MD, San Antonio Military Medical Center *Presented by CPT Richard K. Hurley MD

Poster 8

A Systematic Review of Osmotic Therapy for Extremity Compartment Syndrome LCol Max Talbot, MD, FRCSC, Canadian Armed Forces

Poster 9

Open Reduction Internal Fixation versus Intramedullary Nailing for Humeral Shaft Fractures: An Expected Patient Value Decision Analysis

CPT Nicholas J. Zarkadis, DO, William Beaumont Army Medical

War Trauma/Military Medicine

Poster 10

Battlefield Surgery in Syria: A New Set of Challenges MAJ Anthony M. Barcia, MD, Landstuhl Regional Medical Center

Poster 11

Successful Utilization of the Cross-Leg Flap in he Austere Surgical Theater *LtCol Chance Jack Henderson, MD, US Air Force Academy*

Poster 12

Case Report of an Impaled Unexploded Ordinance in the Civilian Trauma Setting and a Review of the Literature

Capt Andrew S. Murtha, MD, San Antonio Military Medical Center

STATION B (Princess Ballroom Salon B)

Hand and Wrist

Poster 13

A Unique Case Of Simultaneous Dislocation Of Multiple Carpometacarpal Joints Including The Thumb, Index, Long, And Ring Fingers, But Sparing The Small Finger LT Nicholas J. Erdle, MD, Naval Medical Center Portsmouth

Poster 14

Self-Inflicted Wrist Injuries Masquerading as Scaphoid Fractures in Military Recruits: Case Series

Captain (Res) Assaf Kadar, MD, Tel Aviv Sourasky Medical Center *Presented by CPT Haggai Schermann, MD

Poster 15

Clinical and Radiologic Outcomes after Scaphoid Fracture Treatment in NFL Combine Athletes *CAPT Matthew T. Provencher, MD, The Steadman Clinic*

Practice Management/Education

Poster 16

Exaggerated Pre-Operative Patient Reported Visual Analog Pain Scale, A Retrospective Review of 201 Consecutive Surgical Patients

MAJ Kevin D. Martin, DO, Evans Army Community Hospital *Presented by ENS J. Preston Van Buren

Poster 17

Orthopaedic Injury Treatment and Resource Utilization in the United States Military, Fiscal Year (FY) 2012-2015

Timothy C. Mauntel, PhD, ATC, Walter Reed National Military Medical Center

Poster 18

One Military Treatment Facility's Experience with a Fracture Liaison Service LT Kyle E. Nappo, MD, Walter Reed National Military Medical Center

Poster 19

Virtual Reality Simulator versus Dry Lab Training for Shoulder Arthroscopy Procedures MAJ Jessica Cross Rivera, MD, US Army Institute of Surgical Research *Presented by COL Anthony E. Johnson, MD

Poster 20

Orthopaedic In-Training Examination: Does What Service Residents Are on Correlate with Scores?

CAPT Irshad A. Shakir, MD, Saint Louis University

Tumor/Musculoskeletal

Poster 21

Preserving and Advancing the Military's Elite Rehabilitation Centers through Oncologic Restoration

Capt Taylor Bates, MD, San Antonio Military Medical Center *Presented by CPT David J. Tennent, MD

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LT Nicholas H. Lake, MD, Naval Medical Center San Diego

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LT Austin C. Nabet, DO, Naval Medical Center Portsmouth

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

*Presented by LT Martin Collier, MD

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CPT Sally A. Corey, DO, Dwight D. Eisenhower Army Medical Center

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CPT Nischal S. Nadig, DO, Dwight David Eisenhower Army Medical Center

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CPT Kenneth A. Shaw, DO, Dwight David Eisenhower Army Medical Center

*Presented by CPT John D. Synovec, MBA, MD

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Brian R. Waterman, MD, Wake Forest Baptist

*Presented by Michael C. O'Brien, MA, BS

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Robert S. Dean, BS, Midwest Orthopaedics at Rush

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CPT Nicholas J. Drayer, MD, Madigan Army Medical Center

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LT Jason J. Ehrhart, PA-C, Navy Base Coronado Branch Health Clinic, Naval Medical Center San Diego

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Brian R. Waterman, MD, Wake Forest Baptist

*Presented by Michael C. O'Brien, MA, BS

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CPT Spencer Schulte, MD, William Beaumont Army Medical Center

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