

EXTREMITY WAR INJURIES XVII

READY TO FACE THE THREATS OF TODAY AND TOMORROW

January 16-17, 2024 • Washington, DC



EXTREMITY WAR INJURIES XVII SYMPOSIUM

January 16-17, 2024
The Mayflower Hotel • Washington, DC



Symposium Co-Chairs: Lt Col Andrew J. Sheean, MD & Joseph R. Hsu, MD
Scientific Director: LTC Daniel Song, MD
EWI Oversight Chair: Joseph R. Hsu, MD

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 approximately 12 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



Extremity War Injuries XVII

SYMPOSIUM AGENDA

Monday, January 15, 2024

9:00 am - 5:00 pm

Meetings (STaR)

3:00 pm - 5:30 pm

EWI Symposium Check In (Foyer)

Tuesday, January 16, 2024

6:30 am

EWI Symposium Check In (Foyer)

6:30 am – 7:00 am

Coffee

7:00 am – 7:05 am

Symposium Welcome

Lt Col Andrew J. Sheehan, MD and
Joseph R. Hsu, MD

7:05 am – 7:15 am

EWI 2024: Why Are We Here?

Lt Col Andrew J. Sheehan, MD
San Antonio Military Medical Center

7:15 am – 7:45 am

Breakfast/Industry Update

*CME Credit Not Available

7:45 am – 7:55 am

METRC Update

Robert V. O'Toole, MD
University of Maryland Medical Center

7:55 am – 8:05 am

ANCHOR Update

John C. Clohisy, MD
Washington University

8:05 am – 8:15 am

MOON Knee Update

Kurt Spindler, MD
Cleveland Clinic

8:15 am – 8:25 am

MOON Shoulder Update

Carolyn M. Hetterich, MD
Brigham and Women's Hospital

8:25 am - 8:30 am

Questions/Panel Discussion

Lt Col Andrew J. Sheehan, MD

8:30 am – 8:45 am

BREAK

Session I: Orthobiologics Across the Spectrum of MSK Disease

Moderators: LCDR Ashley Anderson, MD and Lt Col Andrew Sheehan, MD

8:45 am – 8:51 am

Orthobiologics in Trauma Surgery: Current Uses and Applications in Acute Interventions

Phillip Leucht, MD
NYU Langone

8:51 am – 8:57 am

Orthobiologics in Trauma Surgery: Strategies for Addressing Non-Unions

Christopher Lee, MD
University of California, Los Angeles

8:57 am – 9:03 am

Point of Care Blood Products: Is this the Future?

Adam Anz, MD
Andrews Institute for Orthopaedics and Sports Medicine

9:03 am – 9:09 am

Bone Marrow Aspirate: Current Indications in Sports Medicine and Future Uses

Don Buford, MD
Texas Orthobiologics Institute

9:09 am – 9:15 am

An Update from the Benchtop

Chelsea Bahney, PhD
University of California, San Francisco

9:15 am – 9:30 am

Questions/Panel Discussion

9:30 am – 9:45 am

BREAK

Session II: Biomarkers Across Orthopaedics

Moderator: LCDR Michelle Gosselin and LCDR Ashley Anderson, MD

9:45 am – 9:51 am

Utility of Biomarkers at Point of Injury

Michael P. Kelly, MD
Rady Children's Hospital, San Diego

9:51 am – 9:57 am

Use of Biomarkers in Articular Ankle Fractures

Samuel Adams, MD
Duke University

9:57 am – 10:03 am

Establishment of a Musculoskeletal Biorepository for Gene and Protein Discovery at a Military Medical Center (Recorded)

LTC Joseph W. Galvin, DO
Madigan Army Medical Center

10:03 am – 10:09 am

Biomarkers and Osteoporosis

CAPT Scott M. Tintle, MD
Walter Reed National Military Medical Center

10:09 am – 10:15 am

Questions/Panel Discussion

10:15 am – 10:30 am

BREAK

Session III: Addressing Critical Bone Defects

Moderators: COL Kenneth Nelson, MD and CDR (sel) Christopher H. Renninger, MD

10:30 am – 10:36 am

Fundamentals for Initial Evaluation and Management

MAJ Shawn E. Boomsma, DO
Ryder Trauma Center/Jackson Memorial Hospital

10:36 am – 10:42 am

Are there Limits to the Masquelet Technique?

LTC (P) Daniel J. Stinner, MD, PhD
Vanderbilt University

10:42 am – 10:48 am

Tips and Tricks of Distraction Osteogenesis

Geoffrey S. Maracek, MD
Cedars-Sinai Medical Center

10:48 am – 10:54 am

How to Address the Challenges of Articular Defects

Timothy S. Achor, MD
McGovern Medical School at UTHealth Houston

10:54 am – 11:00 am

When to Use a Free Fibula?

CAPT Scott M. Tintle, MD
Walter Reed National Military Medical Center

11:00 am – 11:15 am

Questions/Panel Discussion

11:15 am – 11:30 am

BREAK

Session IV: The Conflict in Ukraine: Lessons Learned and Future Directions

Modertors: LTC (P) Daniel J. Stinner, MD and Joseph R. Hsu, MD

11:30 am – 12:10 pm

Panel Discussion

COL (ret) James R. Ficke, MD
Johns Hopkins University
COL (ret) Roman A. Hayda, MD
Rhode Island Hospital
Michael Beltran, MD
University of Cincinnati

Extremity War Injuries XVII

SYMPOSIUM AGENDA

Tuesday, January 16, 2024

12:10 pm – 12:40 pm

Lunch/Industry Update

*CME Credit Not Available

12:40 pm – 1:00 pm

Dessert in Exhibit Hall

Investigators Workshop Part 1: Hear from the Program Managers and Committee Chairs

Moderators: Kurt Spindler, MD and Lt Col Andrew J. Sheean, MD

1:00 pm – 1:05 pm

CDMRP: Peer Reviewed Orthopaedic Research Program

Akua Roach, PhD

US Army Medical Research and Development Command

1:05 pm – 1:10 pm

National Institutes of Health: MSK/Orthopaedic Program

Charles Washabaugh, PhD

NIAMS, National Institutes of Health, DHHS

1:10 pm – 1:15 pm

Military Technology Enterprise Consortium: Military Operational Medicine Research Program

Elizabeth Esposito-Russell, PhD

Military Operational Medicine Research Program

1:15 pm – 1:20 pm

Orthopaedic Research Foundation (OREF)

COL (ret) James R. Ficke, MD

Johns Hopkins University

1:20 pm – 1:35 pm

Questions/ Panel Discussion

1:35 pm - 1:40 pm

OTA Research: Current Efforts and Priorities

Saam Morshed, MD

University of California, San Francisco

1:40 pm - 1:45 pm

ASSH Research: Current Efforts and Priorities

David Brogan, MD

Washington University

1:45 pm - 1:50 pm

AOSSM Research: Current Efforts and Priorities

C. Benjamin Ma, MD

University of California, San Francisco

1:50 pm - 2:00 pm

Questions/Panel Discussion

2:00 pm - 2:20 pm

BREAK



Track A:

Degenerative Shoulder Conditions

Moderators: LTC Kelly Kilcoyne, MD and Jonathan F. Dickens, MD

2:20 pm – 2:26 pm

Focal Chondral Lesions About the Shoulder

Lance E. LeClere, MD

Vanderbilt University

2:26 pm – 2:32 pm

Joint Preservation and CAM

Justin Arner, MD

University of Pittsburgh Medical Center

2:32 pm – 2:38 pm

Arthroplasty in the Young Patient

Stephen A. Parada, MD

Augusta University

2:38 pm – 2:44 pm

Scaffolds and Augments for Rotator Cuff Repair

Asheesh Bedi, MD

University of Michigan Health

2:44 pm - 2:55 pm

Questions/Panel Discussion

RESEARCH HIGHLIGHTS

3:00 pm – 3:05 pm

Abstract

3:05 pm – 3:10 pm

Abstract

3:10 pm – 3:15 pm

Abstract

3:15 pm – 3:20 pm

Abstract

3:20 pm - 3:30 pm

Questions

3:30 pm - 3:40 pm

BREAK

Track B:

Distal Upper Extremity Trauma/Reconstruction

Moderator: TBD

2:20 pm – 2:26 pm

Scapholunate Reconstruction

LTC David Wilson, MD

Brooke Army Medical Center

2:26 pm – 2:32 pm

Advances in Distal Radius Fractures

Tamara D. Rozental, MD

Israel Deaconess Medical Center

2:32 pm – 2:38 pm

Scaphoid Non-union

James Higgins, MD

Medstar Union Memorial

2:38 pm – 2:44 pm

Metacarpal and Phalangeal Fractures - Is Intramedullary Fixation the Standard of Care?

Aviram M. Giladi, MD, MS

Medstar Union Memorial

2:44 pm - 2:55 pm

Questions/Panel Discussion

RESEARCH HIGHLIGHTS

3:00 pm – 3:05 pm

Abstract

3:05 pm – 3:10 pm

Abstract

3:10 pm – 3:15 pm

Abstract

3:15 pm – 3:20 pm

Abstract

3:20 pm - 3:30 pm

Questions

3:30 pm - 3:40 pm

BREAK

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SYMPOSIUM AGENDA

Tuesday, January 16, 2022

Session V: Topics in Advanced Reconstruction

Moderators: MAJ Shawn Boomsma, MD and CDR Louis Lewandowski, MD

3:40 pm - 3:46 pm	Orthoplastics: When to Do It Yourself and When to Call for Help Jana M. Davis, MD <i>Penn State Health Center</i>
3:46 pm - 3:52 pm	What's New in Amputation Optimization? COL B. Kyle Potter, MD <i>Walter Reed National Military Medical Center</i>
3:52 pm - 3:58 pm	Osseous Integration in 2024 and Beyond COL (ret) Joseph Alderete, MD <i>University of Texas Health, San Antonio</i>
3:58 pm - 4:04 pm	Hand Transplantation: Fact or Fiction? David Leonard, MD, PhD, FRCS <i>Leeds Teaching Hospitals NHS Trust</i>
4:04 pm - 4:10 pm	Future Directions in Advanced Prosthetic Design and Use Lee Childers, PhD <i>DoD/VA Extremity Trauma and Amputation Center of Excellence</i>
4:10 pm - 4:20 pm	Questions/Panel Discussion
4:20 pm - 4:30 pm	BREAK

Breakout Sessions

4:30 pm - 5:15 pm

Breakout Group A: Antibiotic Coated Implants

Moderators: Joseph R. Hsu, MD and LTC (P) Daniel J. Stinner, MD, PhD

Breakout Group B: Strategies and Controversies Regarding the Management of Critical Bone Defects

Moderators: Timonthy Achor, MD and LCDR Michelle Gosselin, MD

Breakout Group C: Orthobiologics - Where Do We Need to Go?

Moderators: CDR Robert Waltz, MD or MAJ Michael Donohue, MD

Breakout Group D: Post-traumatic Osteoarthritis - Are We Making Progress?

Moderators: Lt Col Aaron Barrow, MD and Christian Latterman, MD

5:20 pm - 5:50 pm

5:50 pm - 7:00 pm

7:30 pm

Breakout Group Reports

Reception/Scientific Poster Session

EWI Faculty Dinner

Wednesday, January 17, 2024

6:30 am **EWI Symposium Check In** (Foyer)

6:30 am - 7:00 am **Coffee**

7:00 am - 7:05 am **Welcome/Review of Day Two**

Session VI: Bone Health and Stress Fractures

Moderators: CDR Louis Lewandowski, MD and LCDR Erica Crump, MD

7:05 am - 7:11 am **Stress Fractures in the Military: Burden of Disease and Readiness Threats**
LCDR Ashley B. Anderson, MD
Fort Belvoir/Walter Reed National Military Medical Center

7:11 am - 7:17 am **Bone Health: The Basics**
Anna N. Miller, MD
Washington University School of Medicine

7:17 am - 7:23 am **Therapeutics in Current Clinical Practice**
CDR James H. Flint, MD
Naval Medical Center San Diego

7:23 am - 7:29 am **Implementing a Bone Health Program: Lessons Learned**
LCDR Benjamin W. Hoyt, MD
James A. Lovell FHCC

7:29 am - 7:40 am **Questions/Panel Discussion**

7:40 am - 8:10 am **Breakfast/Industry Update**

*CME Credit Not Available

Investigators' Workshop Part 2: Hear from the Investigators

Moderators: Lt Col Andrew J. Sheehan, MD and Kurt Spindler, MD

8:15 am - 8:25 am

A Primer on Machine Learning and Artificial Intelligence: What Do You Need to Know Right Now?

Mark P Cote, PT, DPT, MS, CTR
Harvard University

8:25 am - 8:31 am

How to Collaborate with a Scientist: Do's and Don'ts

Joseph C. Wenke, PhD
University of Texas Medical Branch Galveston

8:31 am - 8:37 am

My Journey as a Military Clinical Scientist

Jonathan F. Dickens, MD
Duke University

8:37 am - 8:43 am

MOTION Update

Matthew Bradley, MPH
The Geneva Foundation

8:43 am - 8:50 am

Questions/Panel Discussion

8:50 am - 9:10 am

BREAK

Extremity War Injuries XVII

SYMPOSIUM AGENDA

Wednesday, January 17, 2024

Track A:

Distal Upper Extremity Trauma/Reconstruction

Moderator: TBD

- 9:10 am – 9:16 am **Ballistic Injuries of the Upper Extremity**
Jeffrey G. Stepan, MD, MSc
University of Chicago
- 9:16 am – 9:22 am **Cubital Tunnel Syndrome Advances in Diagnostics**
Daniel A. Osei, MD, MSc
Hospital for Special Surgery
- 9:22 am – 9:28 am **Carpal Tunnel Syndrome Advances in Diagnostics**
Justin Fowler, MD
Rush University
- 9:28 am – 9:34 am **Elbow Instability Advances**
Maj Casey Sabbag, MD
Brooke Army Medical Center
- 9:34 am – 9:50 am **Questions/Panel Discussion**

RESEARCH HIGHLIGHTS

- 9:55 am – 10:00 am **Abstract**
- 10:00 am – 10:05 am **Abstract**
- 10:05 am – 10:10 am **Abstract**
- 10:10 am – 10:15 am **Abstract**
- 10:15 am – 10:20 am **Abstract**
- 10:20 am – 10:35 am **Questions/Panel Discussion**
- 10:35 am – 11:00 am **BREAK**

Track A:

Skills Sustainment

Moderators: COL Kenneth Nelson, MD and MAJ Archie Overmann, MD

- 11:00 am – 11:10 am **Experience at a Military Level 1 Trauma Center**
Maj R. Bradley Kessler, MD
San Antonio Military Medical Center
- 11:10 am – 11:20 am **Military-Civilian Partnerships: Utilizing Local Resources**
James A. Blair, MD
Emory University/Grady Memorial Hospital
- 11:20 am – 11:30 am **Lessons Learned from Transitioning an MTF to a Civilian Trauma Center**
CDR Louis R. Lewandowski, MD
Naval Medical Center Camp Lejeune
- 11:30 am – 11:40 am **COTS+ Update and Future Goals**
CDR (sel) Christopher H. Renninger, MD
Walter Reed National Military Medical Center
- 11:40 am – 11:50 am **MAST Update**
LTC Kelly Kilcoyne, MD
Walter Reed National Military Medical Center
- 11:50 am – 11:55 am **Discussion**

Track B:

Infection in Musculoskeletal Trauma

Moderators: CDR Christopher H. Renniger, MD and Maj R. Bradley Kessler, MD

- 9:10 am – 9:16 am **What's On the Horizon?**
LTC Daniel J. Stinner, MD, PhD
Vanderbilt University
- 9:16 am – 9:22 am **Fundamentals of Diagnosis**
Mark R. Brinker, MD
Texas Orthopaedic Hospital
- 9:22 am – 9:28 am **Utility of Topical Antibiotics**
Robert V. O'Toole, MD
University of Maryland Medical Center
- 9:28 am – 9:34 am **Antibiotic Coated Implants**
Rahul Vaidya, MD
Wayne State University
- 9:34 am – 9:50 am **Questions/Panel Discussion**

RESEARCH HIGHLIGHTS

- 9:55 am – 10:00 am **Abstract**
- 10:00 am – 10:05 am **Abstract**
- 10:05 am – 10:10 am **Abstract**
- 10:10 am – 10:15 am **Abstract**
- 10:15 am – 10:20 am **Abstract**
- 10:20 am – 10:35 am **Questions/Panel Discussion**
- 10:35 am – 11:00 am **BREAK**

Track B:

Shoulder Instability

Moderators: Maj Travis Dekker, MD and Justin Arner, MD

- 11:00 am – 11:06 am **Current Refinements to the Glenoid Track Paradigm**
Albert Lin, MD
University of Pittsburgh Medical Center
- 11:06 am – 11:12 am **Criteria-Based Return to Duty/Play Decision Making**
Dean C. Taylor, MD
Duke University
- 11:12 am – 11:18 am **Remplissage: Indications and Limitations**
Brian R. Waterman, MD
Wake Forest University
- 11:18 am – 11:24 am **Posterior Instability: How Can We Get Better?**
Lt Col Andrew Sheean, MD
Brooke Army Medical Center
- 11:24 am – 11:30 am **Bone Grafting in 2024: Current Indications and Limitations**
Matthew T. Provencher, MD
The Steadman Clinic
- 11:50 am – 11:55 am **Discussion**

Extremity War Injuries XVII

SYMPOSIUM AGENDA

Wednesday, January 17, 2024

11:55 am – 12:25 pm

Lunch/Industry Update
*CME Credit Not Available

12:25 pm – 12:45 pm

Dessert in Exhibit Hall

Session VII: Post Traumatic Osteoarthritis and the Knee

Moderators: MAJ Michael Donohue, MD and Jonathan F. Dickens, MD

12:45 pm – 12:51 pm

**Pathogenesis of PTOA:
What Do We Know in 2024?**
Christian Latterman, MD
Brigham and Women's Hospital

12:51 pm – 12:57 pm

Cartilage Restoration in 2024 and Beyond
Drew Lansdown, MD
University of California, San Francisco

12:57 pm – 1:03 pm

**Orthobiologics as Adjuncts and Primary
Treatment**
Jason Dragoo, MD
University of Colorado

1:03 pm – 1:09pm

**Osteochondral Allografts: Optimizing Clinical
Outcomes**
Clayton Nuelle, MD
University of Missouri

1:09pm – 1:15 pm

Patient Specific Osteotomies About the Knee
Travis Dekker, MD
United States Air Force Academy

1:15 pm - 1:25 pm

Questions/Panel Discussion

Session VIII: Ligamentous Knee Injuries

Moderators: MAJ David Tennant, MD and Clayton, Nuelle, MD

1:30 pm – 1:36 pm

STaR Trial: What We've learned So Far
Jay Irrgang, PhD
University of Pittsburgh

1:36 pm – 1:42 pm

**STABILITY Trial: Maximizing Success of ACL
Reconstruction**
Bryson P. Lesniak, MD
University of Pittsburgh

1:42 pm – 1:48 pm

**Strategies for Addressing Rotatory Knee
Instability**
Bruce A. Levy, MD
Orland Health Medical Group

1:48 pm – 1:54 pm

ACL Repair: When to Do It and How to Do It
Joseph J. Ruszbarsky, MD
The Steadman Clinic

1:54 pm – 2:05 pm

Questions/Panel Discussion

2:05 pm – 2:15 pm

BREAK

2:15 pm - 2:30 pm

Closing Comments and Adjourn