

# Benjamin W. Hoyt

## CERTIFICATION

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Board Certified, American Board of Orthopaedic Surgeons

July 2024

## EDUCATION & TRAINING

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### Walter Reed National Military Medical Center

Bethesda, MD

- ❖ Residency, Orthopaedic Surgery July 2017-June 2022
- ❖ Fellowship/Orthopaedic Research July 2019-June 2020
- ❖ Internship, Orthopaedic Surgery June 2016-June 2017

### Uniformed Services University of the Health Sciences

Bethesda, MD

- ❖ Doctor of Medicine July 2012-May 2016

### University of Connecticut

Storrs, CT

- ❖ Bachelor of Science, Physiology & Neurobiology September 2008-May 2012
- ❖ Bachelor of Science, Molecular & Cell Biology September 2008-May 2012
- ❖ *Honors' Scholar Program, Cum Laude*

## ACADEMIC APPOINTMENTS

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### Rosalind Franklin University School of Medicine

North Chicago, IL

- ❖ Assistant Professor of Surgery February 2024-present

### Uniformed Services University Department of Surgery

Bethesda, MD

- ❖ Assistant Professor of Surgery October 2022-present
- ❖ Teaching Fellow July 2017-October 2022

## STAFF APPOINTMENTS

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### Captain James A Lovell Federal Healthcare Facility

North Chicago, IL

- ❖ Director, Sick Call Screeners Course July 2023-present
- ❖ Assistant Department Head, Department of Orthopaedic Surgery May 2023-present
- ❖ Staff Surgeon, Department of Orthopaedic Surgery July 2022-present

### Edwards-Elmhurst Hospital

Elmhurst, IL

- ❖ Staff Surgeon, Orthopaedic Specialists February 2024-present

### CHRISTUS Mother Frances Hospital (Level II Designation)

Tyler, TX

- ❖ Locums Surgeon, Department of Orthopaedic Traumatology July 2023-August 2023

## TEACHING

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### Captain James A Lovell Federal Healthcare Facility

North Chicago, IL

- ❖ Orthopaedic Surgery Clerkship Director February 2024-present
- ❖ Sick Call Screener Course MSK Instructor February 2023-February 2025
- ❖ Medical Student Senior Elective Coordinator August 2022-present

### Walter Reed NMMC Department of Orthopaedic Surgery

Bethesda, MD

- ❖ Academic Chief Resident July 2021-June 2022
- ❖ Orthopaedic Intern Modules Assistant Instructor 2021, 2022
- ❖ Orthopaedic Intern Modules Coordinator/Lead Instructor 2020

### Uniformed Services University

Bethesda, MD

❖ Class Academic Officer	2013
❖ Combat Medical Skills Student Instructor	2013

## COMMITTEES

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### Arthroscopy

❖ Social Media Board Member	January 2024-present
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### Captain James A Lovell Federal Healthcare Facility

❖ DoD Research Protocol Review Committee	North Chicago, IL January 2023-present
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### Society of Military Orthopaedic Surgeons

❖ Research Committee	July 2022-June 2024
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## RESEARCH AWARDS

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- ❖ **SOMOS Founder's Award.** Distance to Dislocation and Recurrent Shoulder Instability Following Latarjet. SOMOS Annual Meeting. Nashville, TN. December 2024.
- ❖ **AAOS Best Shoulder & Elbow Surgery Video.** Open Bankart Repair: Current Indications & Techniques. AAOS OVT. February 2024.
- ❖ **1<sup>st</sup> Place, Walter Reed Robert A. Phillips Clinical Award.** Long-Term Viability for Combat-Traumatized Extremities Treated with Flap-Based Limb Salvage. WRNMMC Research & Innovation Competition. Bethesda, MD. May 2023.
- ❖ **1<sup>st</sup> Place, Walter Reed Robert A. Phillips Laboratory Award.** Validation of a High-Fidelity Bench Model for Orthopaedic Skill Acquisition. WRNMMC Orthopaedic Research Day. Bethesda, MD. May 2021.
- ❖ **1<sup>st</sup> Place, VOS Best Poster.** Practice Patterns and Pain Outcomes for Targeted Muscle Reinnervation: An Informed Approach to Targeted Muscle Reinnervation Use in the Acute Amputation Setting. VOS Annual Meeting. April 2021.
- ❖ **1<sup>st</sup> Place, MOA Best Resident/Fellow Paper.** Risk Factors for Major Thromboembolism in Orthopaedic Combat Casualties. MOA Annual Meeting. April 2021.
- ❖ **SOMOS Founder's Award.** Risk Factors for Major Thromboembolism in Orthopaedic Combat Casualties. SOMOS Annual Meeting. December 2020.
- ❖ **COS Best Resident/Fellow RapidFire Presentation Award.** Reliability of the Walter Reed Classification for Heterotopic Ossification Severity After Amputation. COS Annual Meeting. Atlanta, GA. September 2019.
- ❖ **1<sup>st</sup> Place, COS Best Resident/Fellow Paper.** Definitive Management of Combat-Related Pelvic Ring Disruption Fractures with External Fixation. COS Annual Meeting. Austin, TX. September 2018.
- ❖ **SOMOS Founder's Award.** Intrawound Antibiotic Powder Decreases Frequency of Deep Infection and Severity of Heterotopic Ossification in Combat Lower Extremity Amputations. SOMOS Annual Meeting. Scottsdale, AZ. December 2017.

## GRANTS/FUNDING

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<b>AANA/SOMOS Military Advanced Surgical Training Traveling Fellowship</b>	2023
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- ❖ Funded advanced surgical training in shoulder arthroscopy, academic leadership, and medical/technological innovation with Dr. Ivan Wong in Halifax, Nova Scotia

**USU-Walter Reed Department of Research Programs Medical Education Grant** 2019

- ❖ Protocol: 'Surgical Elbow Dislocation for an Extensile Lateral Approach to the Distal Humerus'

**USUHS Department of Surgery Mabuhay Award** 2015

- ❖ Funded surgical trauma clerkship in Philippines General Hospital, Manila

## EDITORIAL POSITIONS

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**Video Journal of Sports Medicine**

- ❖ Reviewer March 2023-present

**BMC Musculoskeletal Disorders**

- ❖ Reviewer December 2023-present

## JOURNAL PUBLICATIONS

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1. **Hoyt BW**, Yow BG, Feeley SM, Bloom ZJ, Kilcoyne KG, Rue JH, Dickens JF, LeClere LE. Mid- to Long-Term Clinical Outcomes and Failure Rates After ALPSA Lesion Repair. *American Journal of Sports Medicine*. 2025; Jan;53(1):17-23.
2. Gibbs HP, Anderson AB, **Hoyt BW**, Seberski ER, Forsberg JA, Souza JM, Potter BK. *Thighplasty for transfemoral amputations with and without osseointegration: Lower rate of major complications than thighplasty for body contouring. Plastic and Reconstructive Surgery – Global Open*. 2024; Dec;12(12):e6389.
3. Meyer AM, Adebayo T, **Hoyt BW**, Taylor D, Dickens JF. Open Bankart with Subscapularis Split. *JBJS Essential Surgical Techniques*. September 2024.
4. **Hoyt BW**, Tisherman RT, Popchak AJ, Dickens JF. Arthroscopic Bone Block Stabilization for Anterior Shoulder Instability with Subcritical Glenohumeral Bone Loss. *Current Reviews in Musculoskeletal Medicine*. 2024 August 19. 1-11.
5. Trivellas M, **Hoyt BW**, Bokshan S, Dickens JF, Lau BC. Evolving concepts in the treatment of posterior shoulder instability with glenohumeral bone loss. *Annals of Joint*. 2024 July 30; Vol 9.
6. Hurley ET, Aman ZS, Doyle TR, Levin JM, Jazrawi LM, Garrigues GE, Namdari S, Hsu JE, Klifto CS, Anakwenze OA, Dickens JF, **The Posterior Shoulder Instability International Consensus Group**. Posterior Shoulder Instability Part I – Diagnosis, Non-Operative Management, and Labral Repair for Posterior Shoulder Instability – An International Expert Delphi Consensus Statement. *Arthroscopy*. Published online ahead of print. 2024.
7. Hurley ET, Aman ZS, Doyle TR, Levin JM, Jazrawi LM, Garrigues GE, Namdari S, Hsu JE, Klifto CS, Anakwenze OA, Dickens JF, **The Posterior Shoulder Instability International Consensus Group**. Posterior Shoulder Instability Part II - Glenoid Bone-Grafting, Glenoid Osteotomy, and Rehabilitation/Return to Play - An International Expert Delphi Consensus Statement. *Arthroscopy*. Published online ahead of print. 2024.
8. Tropic JG, **Hoyt BW**, Nelson SY, Rabin S, Kilcoyne KG, Tucker CJ. Effect of Surgery Setting for Outpatient Shoulder Procedures on Early Postoperative Complications in a Military Population. *Journal of Shoulder & Elbow Surgery*. Published online ahead of print. 2024.
9. Niu EL, Kinnard MJ, **Hoyt BW**, Zember J, Murphy TP. Magnetic Resonance Imaging Indirect Signs for Anterior Instability of the Lateral Meniscus in Pediatric and Adolescent Patients. *Journal of Pediatric Orthopedics*. Published online ahead of print. 2024.

10. Tropf JG, **Hoyt BW**, Walsh SA, Gibson JA, Polfer EM, Souza JM, Potter BK. Long-Term Health Outcomes of Limb Salvage versus Amputation for Combat-Related Trauma. *Journal of Bone & Joint Surgery*. 2023 September 21. 105(23):1867-1874.
11. **Hoyt BW**, Lundy AE, Colantonio DF, Robertson H, Clark DM, Tintle SM, Potter BK. Hounsfield Unit-Calculated Bone Mineral Density Loss Following Combat-Related Lower Extremity Amputations. *Journal of Bone & Joint Surgery*. 2023 Aug 15. 105(22):1786-1792.
12. Anderson AB, McCarthy CF, **Hoyt BW**, Forsberg JA, Potter BK. Bone Homeostasis and Physiology in Normal and Orthopaedic Disease Conditions. *Journal of the American Academy of Orthopaedic Surgery*. 2023 Jul 18; 31(21):e940-e948.
13. **Hoyt BW**, Dickens JF, Kilcoyne KG. Trans-Osseous Equivalent Technique for Bony Bankart Repair. *Arthroscopy Techniques*. 2023;12(6):E889-896.
14. Harrington C, Wade S, **Hoyt BW**, Tintle SM, Potter BK, Souza JM. A Longitudinal Perspective on Conversion to Amputation for Combat-Related Extremity Injuries Treated with Flap-Based Limb Salvage. *Journal of Orthopaedic Trauma*. 2023 Jul 1; 37(7):361-365.
15. LeClere LE, **Hoyt BW**, Kilcoyne KG, Dickens JF. Posterior Shoulder Instability in the Military and Athlete: an Evidence and Experience-Based Treatment Approach. *Video Journal of Sports Medicine*. 2023;3(1).
16. **Hoyt BW**, Walsh SA, Tintle SM, Andersen R. Barbed Femoral Nailing System for Isolated Intertrochanteric Femur Fractures. *Journal of Surgical Orthopaedic Advances*. 2023;32(1):36-40.
17. Dickens JF, **Hoyt BW**, Kilcoyne KG, LeClere LE. Posterior Glenoid Bone Loss and Instability: An Evidence Based Approach to Diagnosis and Management. *Journal of the American Academy of Orthopaedic Surgery*. 2023 May 1;31(9):429-439.
18. **Hoyt BW**, Riccio CA, LeClere LE, Kilcoyne KG, Dickens JF. Arthroscopic-Assisted Anterior Glenoid Reconstruction Using Nonrigid Fixation with Distal Tibia Osteochondral Allograft. *Video Journal of Sports Medicine*. 2023;3(1).
19. **Hoyt BW**, Anderson AB, Dingle ME, Dickens JF, Eckel TT, Sterbis JR, Potter BK, Kilcoyne KG. Racial and Gender Diversity of Physicians Accepted to American Military Orthopaedic and Surgical Residencies: An 18 Year Analysis. *Journal of Bone & Joint Surgery Open Access*. 2023 Jan 10;8(1):e22.00091.
20. **Hoyt BW**, Clark DM, Lundy AE, Wagner SC, Langhammer C. Validation of a High-Fidelity Bench Model for Orthopaedic Skill Acquisition. *Journal of Surgical Education*. 2022;79(4):1282-1294.
21. **Hoyt BW**, Clark DM, Walsh SA, Pensy RA. Surgical Elbow Dislocation: Technique and Comparative Outcomes. *Techniques in Orthopaedics*. 2022;37(2):82-89.
22. Lam A, **Hoyt BW**, Allsbrook A, Andersen R. Intramedullary nailing of humerus fractures using an implant system with internal distal locking and avoiding distal incisions: operative and clinical outcomes. *Journal of Surgical Orthopaedic Advances*. 2022;31(1):12-16.
23. **Hoyt BW**, Wade S, Harrington CJ, Potter BK, Tintle SM, Souza JM. Institutional Experience and Orthoplastic Collaboration Associated with Improved Flap-based Limb Salvage Outcomes. *Clinical Orthopaedics and Related Research*. 2021;479(11):2388-2396.
24. **Hoyt BW**, Potter BK, Souza JM. Nerve interface strategies for neuroma management and prevention- A conceptual approach guided by institutional experience. *Hand Clinics*. 2021;37(3):372-382.
25. **Hoyt BW**, Nelson SY, Fay JG, Wade SM, Brooks DI, Potter BK. IDEO Energy-Storing Orthosis: Effects on Lower Extremity Function and Preservation. *Injury*. 2021;52(11):3505-3510.

26. **Hoyt BW**, Baird MD, Schobel SM, Sanka R, Robertson H, Potter BK, Bradley M, Oh JS, Elster EA. Tranexamic Acid and Pulmonary Embolism in Combat Casualties with Orthopaedic Injuries. *Orthopaedic Trauma Association International*. 2021;4(4):e143.
27. Wade S, Harrington C, **Hoyt BW**, Melendez-Munoz AM, Potter BK, Souza JM. Beyond Limb Salvage: Limb Restoration Efforts Following Remote Combat-Related Extremity Injuries Optimize Outcomes and Support Sustained Surgical Readiness. *Military Medicine*. September 2021.
28. Walsh SA, **Hoyt BW**, Rowe CJ, Dey D, Davis TA. Alarming Cargo: The Role of Exosomes in Trauma-induced Inflammation. *Biomolecules*. 2021;11(4):522.
29. Horton SA, **Hoyt BW**, Zaidi S, Schloss M, Joshi M, Carlini AR, Castillo RC, O'Toole RV. Risk Factors for Treatment Failure of Fracture Related Infections. *Injury*. 2021;52(6):1351-1355.
30. **Hoyt BW**, Riccio C, LeClere C, Kilcoyne KG, Dickens JF. Arthroscopic Distal Tibial Allograft for Posterior Glenoid Reconstruction. *Video Journal of Sports Medicine*. 2021;1(4):1-3.
31. Edwards NJ, Hobson E, Dey D, Rhodes A, Overmann A, **Hoyt B**, Walsh SA, Pagani C, Strong AL, Hespe GE, Padmanabhan KR, Huber A, Deng C, Davis T, Levi B. High Frequency Spectral Ultrasound Imaging Detects Early Heterotopic Ossification. *Stem Cells & Development*. 2021;473-484.
32. Clark DM, **Hoyt BW**, Piscocoya AS, Daniels CM, Tittle SM. Risk Factors for Distal Radius Osteotomy Non-Unions. *Plastic & Reconstructive Surgery*. 2021 Dec 1;148(6):1301-1305.
33. Sandler AB, **Hoyt BW**, Klahs KJ, Scanaliato JP, Dunn JC, Nesti LJ. Epidemiology and Long-Term Outcomes of Wrist Sprains in Military Academy Cadets. *American Journal of Sports Medicine*. 2021; Jul;49(8):2085-2089.
34. **Hoyt BW**, Clark DM, Roach WB, Rodkey DL, Eckel TT. Implementation of a Virtual Learning and Simulation Curriculum for Orthopaedic Resident Training During COVID and Beyond. *Current Orthopaedic Practice*. 2021;32(4):399-403.
35. **Hoyt BW**, Gibson JA, Potter BK, Souza JM. Practice Patterns and Pain Outcomes for Targeted Muscle Reinnervation: An Informed Approach to Targeted Muscle Reinnervation Use in the Acute Amputation Setting. *Journal of Bone & Joint Surgery*. 2021;103(8):681-687.
36. Nelson SY, Clark DM, **Hoyt BW**, Lundy AE, Wagner SC. Cervical Disc Arthroplasty is an Acceptable Treatment Option for Cervical Myelopathy. *Clinical Spine Surgery*. 2020;35(3):95-96.
37. **Hoyt BW**, Lundy AE, Clark DM, Colantonio D, Tittle SM, Potter BK. Femoral Neck Hounsfield Units as an Adjunct for Bone Mineral Density After Combat-Related Lower Extremity Amputation. *Journal of Orthopaedic Trauma*. 2020;35(5):e158-e164.
38. **Hoyt BW**, Roach WB, Kilcoyne KG, Dickens JF. Predictors of failure of arthroscopic Bankart repair. *Operative Techniques in Orthopaedics*. 2020;30(3).
39. **Hoyt BW**, Clark DM, Walsh SA, Pensy RA. Surgical Elbow Dislocation Approach to the Distal Humerus: An Anatomic Study. *Journal of Orthopaedic Trauma*. 2020;35(3):e77-e81.
40. **Hoyt BW**, Roach WB, Lundy AE, D'Alleyrand JC, Forsberg JA, Potter BK. Reliability of the Walter Reed Classification for Heterotopic Ossification Severity in Amputees. *Journal of Orthopaedic Trauma*. 2020;34(12):e449-e453.
41. **Hoyt BW**, Walsh SA, Forsberg JA. Osseointegrated Prosthesis for the Rehabilitation of Amputees (OPRA): Results and Clinical Perspective. *Expert Review of Medical Devices*. 2020;17(1):17-25.

42. **Hoyt BW**, Lundy AE, Purcell RL, Harrington CJ, Gordon WT. Definitive External Fixation for Anterior Stabilization of Combat-Related Pelvic Ring Injuries, With or Without Sacroiliac Fixation. *Clinical Orthopaedics and Related Research*. 2020;478(4):779-789.
43. **Hoyt BW**, Dickens JF. Hip Arthroscopy Technique for Acetabular Osteochondral Loose Bodies After Combined Lower Extremity Trauma. *Techniques in Orthopaedics*. 2020;35(2):151-154
44. Polfer EM, **Hoyt BW**, Bevevino AJ, Forsberg JA, Potter BK. 2019. Knee Disarticulation versus Transfemoral Amputations: Functional Outcomes. *Journal of Orthopaedic Trauma*. 33(6):308-311.
45. Nappo KE, **Hoyt BW**, Polfer EM, Ipsen DF, Nanos GP, Tintle SM. Union Rates and Reported Range of Motion Are Acceptable After Open Forearm Fractures in Military Combatants. *Clinical Orthopaedics and Related Research*. 2019;477(4):813-820.
46. Pavey GJ, Formby PF, **Hoyt BW**, Wagner SC, Forsberg JA, Potter BK. Intrawound Antibiotic Powder Decreases Frequency of Deep Infection and Severity of Heterotopic Ossification in Combat Lower Extremity Amputations. *Clinical Orthopaedics and Related Research*. 2018;477(4): 802-810.
47. **Hoyt BW**, Pavey GJ, Potter BK, Forsberg JA. Heterotopic Ossification and Lessons Learned from Fifteen Years at War: A Review of Therapy, Novel Research, and Future Directions for Military and Civilian Orthopaedic Trauma. *Bone*. 2018;109: 3-11.
48. Plowden TC, Hill MJ, Miles S, **Hoyt BW**, Yauger B, Segars JH, Csokmay J, Chason R. Does the presence of blood in the catheter or the degree of difficulty of embryo transfer affect live birth? *Reproductive Sciences*. 2017;24(5)726-730.
49. **Hoyt BW**, Mo C, Heaton SM, Senchak AJ. Hodgkin Lymphoma Presenting with Anti-N-methyl-D-aspartate Receptor Encephalitis. *Journal of Clinical & Medical Case Reports*. 2015;1(3): 1-6.
50. **Hoyt BW**, Pavey GJ, Pasquina PF, Potter BK. Rehabilitation of Lower Extremity Trauma: A Review of Principles and Military Perspective on Future Directions. *Current Trauma Surgery Reports*. 2015;1:51-60.
51. Polfer EM, **Hoyt BW**, Senchak LT, Murphey MD, Forsberg JA, Potter BK. Fluid Collections in Amputations Are Not Indicative or Predictive of Infection. *Clinical Orthopaedics and Related Research*. 2014;472: 2978-2983.
52. Khan FA, Campbell AJ, **Hoyt B**, Herdman C, Ku T, Thangavelu S, Gordon RK. Oxidative mechanisms for the biotransformation of 1-methyl-1,6-dihydropyridine-2-carbaldoxime to pralidoxime chloride. *Life Sciences*. 2011;89(25-26):911-917.

## BOOK CHAPTERS

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1. **Hoyt BW**, Hurley ET, LeClere LE, Kilcoyne KG, Tokish JM, Dickens JF. Operative Techniques in Sports Medicine - Revision Shoulder Instability: Managing Failed Shoulder Stabilizations. Pending publication.
2. **Hoyt BW**, Tintle SM, Potter BK, Souza JM. Chapter 13: Interdisciplinary Surgical Decision Making for Painful Neuroma. *Contemporary Neuroma Management*, 1<sup>st</sup> Edition. 2024. 121-130.
3. Dickens JF, LeClere L, **Hoyt BW**. Chapter 12: Open Repair of Posterior Shoulder Instability. *Cole & Chahla: Surgical Techniques of the Shoulder, Elbow, and Knee in Sports Medicine*. January 2022.

## MULTIMEDIA PUBLICATIONS

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- ❖ **Hoyt BW**, Riccio C, Nelson S, Kilcoyne K, LeClere L, Dickens JF. Open Bankart Repair: Current Indications & Techniques. AAOS OVT. February 2024. *AAOS Best Shoulder & Elbow Surgery Video*.
- ❖ **Hoyt BW**, Riccio C, Kilcoyne K, LeClere L, Tokish JM, Dickens JF. Arthroscopic Assisted Anterior Glenoid Reconstruction using Nonrigid Fixation with Distal Tibia Osteochondral Allograft: Two Alternative Techniques. AAOS OVT. March 2023.
- ❖ LeClere LE, **Hoyt BW**, Kilcoyne KG, Dickens JF. Posterior Shoulder Instability: Current and Emerging Treatment Principles and Techniques from the Military. AAOS OVT. March 2023. *AAOS Sports Honorable Mention*.
- ❖ **Hoyt BW**, Riccio C, Kilcoyne K, LeClere L, Dickens JF. Arthroscopic Assisted Posterior Glenoid Reconstruction with Distal Tibia Osteochondral Allograft. AAOS OVT. March 2022.
- ❖ **Hoyt BW**, Clark DM, Walsh SA, Pensy RA. Surgical Elbow Dislocation Approach to the Distal Humerus. ASSH Hand-e Hand 50 Series. April 2020.

## INVITED PRESENTATIONS & GRAND ROUNDS

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- ❖ Preparing for ABOS Part 2/Board Prep Introduction. Invited Presentation. SOMOS Annual Meeting. Nashville, TN. December 2024.
- ❖ Implementing a Bone Health Program & Lessons Learned: Vitamin D & Stress Fracture Prevention Program at NRTC Great Lakes. Invited Presentation. EWI Annual Meeting. Washington, DC. January 2024.
- ❖ Evolution of the Approach to the Unstable Glenohumeral Joint: Achieving Balance in Orthopaedics. Grand Rounds, Dalhousie University. Halifax, NS. November 2023.
- ❖ Functional Limb Salvage: Decision Points and Evolving Concepts after Combat Blast Injuries. Invited Presentation. Blast Injury Conference. London, England. July 2021.

## MODERATOR

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- ❖ Musculoskeletal Infections. SOMOS Annual Meeting. Nashville, TN. December 2024.

## CONFERENCE PRESENTATIONS & POSTERS

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- ❖ Patterns of Latarjet Resorption. Wolff's Law or Crying Wolf? Feeley SM, Hoyt BW, McQuade A, McCarthy CF, Rodkey DL, Kilcoyne KG, Dickens JF. Podium Presentation. SOMOS Annual Meeting. Nashville, TN. December 2024
- ❖ Systematic Review of Distal Humerus Fractures-Comparison of Articular Exposures. Yoon A, Gavalas A, Clark DM, Hoyt BW. Rapid Fire Presentation. SOMOS Annual Meeting. Nashville, TN. December 2024.
- ❖ Dynamic Posterior Shoulder Subluxation Sign for Posterior Glenoid Bone Loss. Hoyt BW, Feeley SM, McCarthy CF, Gibbs HP, Kilcoyne KG, Dickens JF. Mid-Atlantic Shoulder and Elbow Society Annual Meeting. Washington, D.C. September, 2024.
- ❖ Distance to Dislocation and Recurrent Shoulder Instability in a Military Population. McQuade AM, Feeley SM, Hoyt BW, McCarthy CF, Rodkey DL, Kilcoyne KG, Dickens JF.
  - Podium Presentation. SOMOS Annual Meeting. Nashville, TN. December 2024. *SOMOS Founder's Award*.
  - Podium Presentation. WRNMMC Department of Orthopaedic Surgery Research Day. Bethesda, MD. June 2024.

- ❖ Decreased Failure After Military Shoulder Stabilization Procedures with Suture Tape. Feeley SM, Yow BG, Hoyt BW, Koo CJ, Wade SM, Dickens JF, Waltz RA, Rue JPH, LeClere LE.
  - Poster Presentation. SOMOS Annual Meeting. Nashville, TN. December 2024.
  - Poster Presentation. EWI Annual Meeting. Washington, DC. January 2024.
- ❖ Arthroscopic Anatomic Glenoid Reconstruction Does Not Affect The Subscapularis Compared To Latarjet. Wong I, Castillo J, Sparavalo S, Ma J, Remedios S, Hoyt BW, Riccio CA, Kilcoyne KG, Dickens JF.
  - Poster Presentation. AOSSM Annual Meeting. Washington, DC. July 2023.
  - Podium Presentation. COA Annual Meeting. Calgary, Alberta. June 2023.
  - ePoster Presentation. ISAKOS Congress. Boston, MA. June 2023.
  - Poster Presentation. AANA Annual Meeting. New Orleans, LA. May 2023.
- ❖ Long-Term Viability for Combat-Traumatized Extremities Treated with Flap-Based Limb Salvage. Harrington CJ, Wade SM, Hoyt BW, Potter BK, Souza JM.
  - Podium Presentation. WRNMMC Research & Innovation Competition. Bethesda, MD. May 2023. *1<sup>st</sup> Place, Walter Reed Robert A. Phillips Clinical Award (Residents & Interns)*
  - Podium Presentation. SOMOS Annual Meeting. Scottsdale, AZ. December 2022.
- ❖ ALPSA Lesions Associated with High Rate of Early Repair Failure. Hoyt BW, Yow BG, Rue JP, Dickens J, LeClere LE. Poster Presentation. AOSSM Annual Meeting. Washington, DC. July 2023.
- ❖ Quality Assessment of Prospective Cohort and Randomized Controlled Trials Evaluating Surgical Treatment of Proximal Humerus Fractures: A Systematic Review. Murphy T, Tropf J, Clark DM, Hoyt BW. Rapid Fire Presentation. SOMOS Annual Meeting. Scottsdale, AZ. December 2022.
- ❖ An MRI Sign for Anterior Instability of the Lateral Meniscus. Murphy T, Kinnard MJ, Hoyt BW, Niu EL.
  - Poster Presentation. AOSSM Annual Meeting. Washington, DC. July 2023
  - Rapid Fire Presentation. SOMOS Annual Meeting. Scottsdale, AZ. December 2022.
  - Podium Presentation. COS Annual Meeting. San Antonio, TX. September 2022.
- ❖ Posterior Shoulder Instability. Current and Emerging Treatment Principles and Techniques from the Military. LeClere LE, Hoyt BW, Kilcoyne KG, Dickens JF. Video Presentation. AOSSM Annual Meeting. Colorado Springs, CO. July 2022.
- ❖ Outcomes of Distal Radius Fractures Treated with Multiplanar External Fixation. Maeso AD, Tropf J, Walsh SA, Hoyt BW, Romano DM, Tintle SM, Andersen RC.
  - Rapid Fire Presentation. SOMOS Annual Meeting. Scottsdale, AZ. December 2022.
  - Rapid Fire Presentation. SOA Annual Meeting. White Sulphur Springs, WV. July 2022.
- ❖ A Missed Opportunity: Nerve Injuries in Combat-Related Extremity Limb Salvage. Dearden ME, Harrington CJ, Hoyt BW, Wade SM, McGlone P, Souza JM, Tintle SM, Potter BK. Research Highlight Presentation. EWI Annual Meeting. Washington, DC. August 2022.
- ❖ Hounsfield Units and Bone Mineral Density: A Systematic Review. Arave M, Lundy AE, Potter BK, Tintle SM, Clark DM, Hoyt BW. Rapid Fire Presentation. SOMOS Annual Meeting. Olympic Valley, CA. December 2021.



- ❖ Elective Amputation for Chronic Regional Pain Syndrome: A Reasonable Option? Hoyt BW, Anderson AB, Cantor A, Potter BK.
  - Podium Presentation. EWI Annual Meeting. Washington, DC. August 2022.
  - Podium Presentation. SOMOS Annual Meeting. Olympic Valley, CA. December 2021.
- ❖ Shoulder Arthroscopy Outcomes: Hospital Outpatient vs. Surgery Center. Nelson SY, Hoyt BW, Tropf J, Rabin S, Kilcoyne KG, Tucker CJ.
  - Podium Presentation. VOS Annual Meeting. White Sulphur Springs, WV. April 2022.
  - Rapid Fire Presentation. SOMOS Annual Meeting. Olympic Valley, CA. December 2021.
- ❖ Open Bankart Repair: Current Indications & Techniques. Roach WB, Hoyt BW, Riccio C, Kilcoyne K, Dickens JF. Rapid Fire Presentation. SOMOS Annual Meeting. Olympic Valley, CA. December 2021.
- ❖ Rotator Cuff Repair Augmentation with a Novel Biphasic Mineralized to Collagen Scaffold: A First In-Human Safety Study with Preliminary Radiographic and Clinical Outcomes. Hoyt BW, Robinson KP, Wertz JA, Giuliani J, Dickens JF. Rapid Fire Presentation. SOMOS Annual Meeting. Olympic Valley, CA. December 2021.
- ❖ Arthroscopic Assisted Posterior Glenoid Reconstruction with Distal Tibia Osteochondral Allograft. Riccio C, Hoyt BW, Kilcoyne K, LeClere LE, Dickens JF. Rapid Fire Presentation. SOMOS Annual Meeting. Olympic Valley, CA. December 2021.
- ❖ Arthroscopic Assisted Anterior Glenoid Reconstruction with Distal Tibia Osteochondral Allograft. Riccio C, Hoyt BW, Nelson S, Kilcoyne K, Dickens JF. Rapid Fire Presentation. SOMOS Annual Meeting. Olympic Valley, CA. December 2021.
- ❖ Long-Term Health Outcomes of Limb Salvage vs. Amputation for Combat-Related Trauma. Tropf JG, Hoyt BW, Gibson J, Polfer EM, Souza JM, Potter BK.
  - Poster Presentation. AAOS Annual Meeting. Las Vegas, NV. March 2023.
  - Podium Presentation. SOMOS Annual Meeting. Scottsdale, AZ. December 2022.
  - Poster Presentation. OTA Annual Meeting. Tampa, FL. October 2022
  - Rapid Fire Presentation. COS Annual Meeting. San Antonio, TX. September 2022.
  - Podium Presentation. MHSRS. Kissimmee, FL. September 2022.
  - Research Highlight Presentation. EWI Annual Meeting. Washington, DC. August 2022.
  - Podium Presentation. ABJS Annual Meeting. Venice, IT. July 2022.
  - Rapid Fire Presentation. SOMOS Annual Meeting. Olympic Valley, CA. December 2021.
- ❖ Assessing Demographic Representation in Military Orthopaedics. Hoyt BW, Dingle MD, Anderson AB, Potter BK, Eckel T, Sterbis J, Kilcoyne K.
  - Poster Presentation. AANA Annual Meeting. New Orleans, LA. March 2023.
  - Rapid Fire Presentation. SOMOS Annual Meeting. Olympic Valley, CA. December 2021.
- ❖ Implementation of a Virtual Learning/Simulation Curriculum for Orthopaedic Resident Training. Roach WB, Hoyt BW, Clark DM, Rodkey D, Eckel T. Rapid Fire Presentation. SOMOS Annual Meeting. Olympic Valley, CA. December 2021.
- ❖ Barbed Femoral Nailing System for Isolated Intertrochanteric Femur Fractures. Hoyt BW, Walsh SA, Tintle SM, Andersen R.
  - Rapid Fire Presentation. SOMOS Annual Meeting. Olympic Valley, CA. December 2021.

- Rapid Fire Presentation. COS Annual Meeting. Nashville, TN. November 2021.
- ❖ Barbed Femoral Nailing System for Isolated Femoral Neck Fractures. Hoyt BW, Walsh SA, Tintle SM, Andersen R.
  - Rapid Fire Presentation. SOMOS Annual Meeting. Olympic Valley, CA. December 2021.
  - Rapid Fire Presentation. COS Annual Meeting. Nashville, TN. November 2021.
- ❖ Predicting Critical Osteopenia Following Combat-Related Extremity Amputation. Hoyt BW, Lundy AE, Clark DM, Colantonio DF, Robertson H, Tintle SM, Potter BK.
  - Rapid Fire Presentation. COS Annual Meeting. San Antonio, TX. September 2022.
  - Podium Presentation. WRNMMC Research & Innovation Symposium. Bethesda, MD. May 2022. *Finalist, Walter Reed Robert A. Phillips Clinical Award (Residents & Interns)*
  - Rapid Fire Presentation. SOMOS Annual Meeting. Olympic Valley, CA. December 2021.
  - Podium Presentation. WRNMMC Department of Orthopaedic Surgery Research Day. Bethesda, MD. May 2021.
- ❖ Validation of a High-Fidelity Bench Model for Orthopaedic Skill Acquisition. Hoyt BW, Clark DM, Lundy AE, Wagner SC, Langhammer C.
  - Rapid Fire Presentation. SOMOS Annual Meeting. Olympic Valley, CA. December 2021.
  - Podium Presentation. WRNMMC Orthopaedic Research Day. Bethesda, MD. May 2021.
  - Podium Presentation. Navy Academic Research Competition. Bethesda, MD. May 2021. *3<sup>rd</sup> Place, Laboratory Award (Residents & Interns)*.
  - Podium Presentation. WRNMMC Research & Innovation Competition. Bethesda, MD. May 2021. *1<sup>st</sup> Place, Walter Reed Robert A. Phillips Laboratory Award (Residents & Interns)*.
  - Virtual Podium Presentation. MOA Annual Meeting. April 2021.
- ❖ Risk Factors for Distal Radius Osteotomy Non-Unions. Clark DM, Hoyt BW, Piscoya AS, Daniels CM, Tintle SM.
  - Rapid Fire Presentation. COS Annual Meeting. Nashville, TN. November 2021.
  - Podium Presentation. AAOS Annual Meeting. September 2021.
  - Rapid Fire Presentation. SOA Annual Meeting. Isle of Palms, SC. July 2021.
  - Virtual Podium Presentation. SOMOS Annual Meeting. December 2020.
  - Virtual Podium Presentation. ASSH Annual Meeting. October 2020.
- ❖ Institutional Experience and Orthoplastic Collaboration Improve Flap-Based Limb Salvage Outcomes. Hoyt BW, Wade SM, Harrington CJ, Tintle SM, Potter BK, Souza JM.
  - Virtual Poster Presentation. MHSRS Annual Meeting. August 2021.
  - Podium Presentation. WRNMMC Research & Innovation Competition. Bethesda, MD. May 2021. *Finalist, Walter Reed Robert A. Phillips Clinical Award (Residents & Interns)*
  - Virtual Podium Presentation. MOA Annual Meeting. April 2021.
  - Virtual Podium Presentation. SOMOS Annual Meeting. December 2020.
- ❖ Humeral Intramedullary Fixation with Internal Distal Locking Implants: Operative Outcomes. Hoyt BW, Lam A, Allsbrook A, Andersen R.
  - Rapid Fire Presentation. SOA Annual Meeting. Isle of Palms, SC. July 2021.

- Virtual Poster Presentation. VOS Annual Meeting. April 2021. *2<sup>nd</sup> Place, VOS Best Poster.*
- Virtual Podium Presentation. SOMOS Annual Meeting. December 2020.
- ❖ Outcomes of Arthroscopic Shoulder Stabilization: 5-Year Follow-Up. Yow BG, Bedrin MD, Wade SM, Hoyt BW, Rue JP, Dickens J, LeClere LE.
  - Virtual Podium Presentation. ISAKOS Annual Congress. Cape Town, South Africa. November 2021.
  - Rapid Fire Presentation. COS Annual Meeting. Nashville, TN. November 2021.
  - Podium Presentation. AAOS Annual Meeting. San Diego, CA. September 2021.
  - Podium Presentation. WRNMMC Department of Orthopaedic Surgery Research Day. Bethesda, MD. May 2021.
  - Virtual Podium Presentation. MOA Annual Meeting. April 2021.
  - Virtual Podium Presentation. SOMOS Annual Meeting. December 2020.
- ❖ Risk Factors for Major Thromboembolism in Orthopaedic Combat Casualties. Hoyt BW, Baird MD, Schobel SM, Sanka R, Robertson H, Potter BK, Bradley M, Oh JS, Elster EA.
  - Poster Presentation. OTA Annual Meeting. October 2021.
  - Virtual Podium Presentation. MOA Annual Meeting. April 2021. *1<sup>st</sup> Place, MOA Best Resident/Fellow Paper.*
  - Virtual Podium Presentation. SOMOS Annual Meeting. December 2020. *SOMOS Founder's Award.*
- ❖ Practice Patterns and Pain Outcomes for Targeted Muscle Reinnervation: An Informed Approach to Targeted Muscle Reinnervation Use in the Acute Amputation Setting. Hoyt BW, Gibson JA, Potter BK, Souza JM.
  - Poster Presentation. OTA Annual Meeting. October 2021.
  - Virtual Poster Presentation VOS Annual Meeting. April 2021. *1<sup>st</sup> Place, VOS Best Poster.*
  - Virtual Podium Presentation. MOA Annual Meeting. April 2021.
  - Virtual Podium Presentation. SOMOS Annual Meeting. December 2020.
  - Virtual Podium Presentation. ASSH Annual Meeting. October 2020.
  - Virtual Podium Presentation. COS Annual Meeting. September 2020.
  - Virtual Podium Presentation. WRNMMC Department of Orthopaedic Surgery Research Day. May 2020
- ❖ Surgical Elbow Dislocation for Lateral Column Fractures: Technique and Comparative Outcomes. Hoyt BW, Clark DM, Walsh SA, Pensy RA.
  - Podium Presentation. SOMOS Annual Meeting. Olympic Valley, CA. December 2021.
  - Technical Tricks Presentation. OTA Annual Meeting. October 2021.
  - Virtual Podium Presentation. MOA Annual Meeting. April 2021.
- ❖ Surgical Elbow Dislocation Approach to the Distal Humerus: An Anatomic Study. Hoyt BW, Clark DM, Walsh SA, Pensy RA.
  - Podium Presentation. AAOS Annual Meeting. September 2021.
  - Virtual Podium Presentation. SOMOS Annual Meeting. December 2020.

- Virtual Poster Presentation. ASSH Annual Meeting. October 2020.
- Virtual Podium Presentation. COS Annual Meeting. September 2020.
- Virtual Poster Presentation. USU Research Days. Bethesda, MD. May 2020.
- ❖ Femoral Neck CT Correlation with Bone Mineral Density After Extremity Amputation. Hoyt BW, Colantonio DF, Lundy AE, Clark DM, Forsberg JA, Tintle SM, Potter BK.
  - Virtual Poster Presentation. ASSH Annual Meeting. October 2020.
  - Virtual Poster Presentation. VOS Annual Meeting. Virginia Beach, VA. May 2020.
  - Podium Presentation. EWI Annual Meeting. Washington DC. January 2020.
- ❖ Long-Term Outcomes of Combat-Related Extremity Injuries Treated with Flap-Based Limb Salvage. Hoyt BW, Wade SM, Harrington CJ Elster EA, Potter BK, Souza JM.
  - Virtual Podium Presentation. SOMOS Annual Meeting. December 2020.
  - Virtual Podium Presentation. COS Annual Meeting. September 2020.
  - Virtual Podium Presentation. VOS Annual Meeting. May 2020. *3<sup>rd</sup> Place, VOS Best Poster.*
  - Podium Presentation. EWI Annual Meeting. Washington, DC. January 2020.
  - Podium Presentation. ASRM Annual Meeting. Ft. Lauderdale, FL. January 2020.
- ❖ IDEO Energy-Storing Orthosis: Effects on Lower Extremity Function and Preservation. Hoyt BW, Nelson S, Wade S, Fay J, Brooks D, Potter BK.
  - Virtual Podium Presentation. MOA Annual Meeting. April 2021.
  - Virtual Poster Presentation. VOS Annual Meeting. Virginia Beach, VA. May 2020.
  - Podium Presentation. EWI Annual Meeting. Washington DC. January 2020.
  - Poster Presentation. SOMOS Annual Meeting. Palm Springs, FL. December 2019.
  - Podium Presentation. COS Annual Meeting. Atlanta, GA. September 2019. *2<sup>nd</sup> Place, COS Best Resident/Fellow Presentation Award.*
- ❖ Reliability of the Walter Reed Classification for Heterotopic Ossification Severity After Amputation. Hoyt BW, Roach B, Lundy AE, D'Alleyrand JC, Forsberg JA, Potter BK.
  - Virtual Poster Presentation. VOS Annual Meeting. May 2020.
  - Virtual Podium Presentation. WRNMMC Research & Innovation Symposium. Bethesda, MD. May 2020. *Finalist, Walter Reed Robert A. Phillips Clinical Award (Residents & Interns).*
  - Podium Presentation. EWI Annual Meeting. Washington, DC. January 2020.
  - Rapid Fire Presentation. SOMOS Annual Meeting. Palm Springs, FL. December 2019.
  - Rapid Fire Presentation. COS Annual Meeting. Atlanta, GA. September 2019. *COS Best Resident/Fellow RapidFire Presentation Award.*
- ❖ Risk Factors for Treatment Failure of Fracture Related Infections. Hoyt BW, Horton SA, Schloss M, Zaidi S, Carlini AR, Castillo RC, O'Toole RV.
  - Virtual Podium Presentation. VOS Annual Meeting. May 2020.
  - Virtual Poster Presentation. AAOS Annual Meeting. March 2020.
  - Podium Presentation. SOMOS Annual Meeting. Palm Springs, FL. December 2019.
  - Poster Presentation. OTA Annual Meeting. Denver, CO. September 2019.

- Poster Presentation. WRNMMC Research & Innovation Competition. Bethesda, MD. April 2019.
- ❖ Definitive Management of Combat-Related Pelvic Ring Disruption Fractures with External Fixation. Hoyt BW, Lundy AE, Purcell RL, Harrington CJ, Gordon WT.
  - Poster Presentation. WRNMMC Research & Innovation Competition. Bethesda, MD. April 2019.
  - Podium Presentation. COS Annual Meeting. Austin, TX. September 2018. *1<sup>st</sup> Place, Best Resident/Fellow Paper.*
  - Podium Presentation. SOMOS Annual Meeting. Keystone, CO. December 2018.
- ❖ Knee Disarticulation versus Transfemoral Amputations: Functional Outcomes. Hoyt BW, Polfer EM, Bevevino AJ, Forsberg JA, Potter BK.
  - Podium Presentation. Extremity War Injuries XVI. Washington, DC. January 2019.
  - Podium Presentation. SOMOS Annual Meeting. Keystone, CO. December 2018.
  - Rapid Fire Presentation. COS Annual Meeting. Austin, TX. September 2018.
- ❖ Epidemiology and Long-Term Outcomes of Wrist Sprains. Sandler AB, Hoyt BW, Klahs K, Nesti LJ, Dunn JC.
  - Podium Presentation. SOMOS Annual Meeting. Olympic Valley, CA. December 2021.
  - Virtual Podium Presentation. COS Annual Meeting. September 2020.
  - Poster Presentation. MHSRS Annual Meeting. Kissimmee, FL. August 2020.
  - Rapid Fire Presentation. SOMOS Annual Meeting. Keystone, CO. December 2018.
- ❖ Intrawound Antibiotic Powder Decreases Frequency of Deep Infection and Severity of Heterotopic Ossification in Combat Lower Extremity Amputations. Hoyt BW, Pavey GJ, Formby PF, Wagner SC, Forsberg JA, Potter BK.
  - Podium Presentation. WRNMMC Research & Innovation Competition. Bethesda, MD. April 2018. *Finalist, Walter Reed Robert A. Phillips Clinical Award (Residents & Interns).*
  - Podium Presentation. Maryland Orthopaedic Association Annual Meeting. Annapolis, MD. February 2018.
  - Podium Presentation. Extremity War Injuries XII. Washington, DC. January 2018.
  - Podium Presentation. SOMOS Annual Meeting. Scottsdale, AZ. December 2017. *SOMOS Founder's Award.*
  - Podium Presentation. Combat Blast Injury Symposium. London, England. November 2017.
- ❖ Hip Arthroscopy Technique for Acetabular Osteochondral Loose Bodies After Combined Lower Extremity Trauma. Hoyt BW, Dickens JF. Poster Presentation. WRNMMC Research & Innovation Competition. Bethesda, MD. April 2018.
- ❖ Outcomes of Surgical Treatment for High-Energy Open Forearm Fractures. Nappo KE, Hoyt BW, Polfer EM, Ipsen DF, Nanos GP, Tintle SM.
  - Podium Presentation. AAOS Annual Meeting. New Orleans, LA. March 2018.
  - Podium Presentation. SOMOS Annual Meeting. Scottsdale, AZ. December 2017.
  - Podium Presentation. AAOS Annual Meeting. Orlando, FL. March 2016.
  - Rapid Fire Presentation. COS Annual Meeting. Indianapolis, IN. September 2017.

- Podium Presentation. Extremity War Injuries XI. Washington, DC. January 2016.
- Podium Presentation. SOMOS Annual Meeting. St. Petersburg, FL. December 2015.
- Podium Presentation. AAHS Annual Meeting. Scottsdale, AZ. January 2015.
- Poster Presentation. USU Research Days, Bethesda, MD. May 2016.
- Poster Presentation. ASSH Annual Meeting. Seattle, WA. September 2015.
- ❖ Watchers in the Hospital: A Unique Adjunct to the Healthcare Team at Philippine General Hospital. Hoyt BW. Poster Presentation. USU Research Days, Bethesda, MD. May 2016.
- ❖ Fluid Collections in Amputations: Prevalence and Clinical Implications. Polfer EM, Hoyt BW, Senchak LT, Murphey MD, Forsberg JA, Potter BK.
  - Poster Presentation. USU Research Days. Bethesda, MD. May 2014.
  - Poster Presentation. SOMOS Annual Meeting. Vail, CO. December 2013.
  - Poster Presentation. COS Annual Meeting. Buffalo, NY. September 2013.
- ❖ The Effects of KIAA0319 Gene Dysfunction on Cortical Neuron Synapse Maturity in the Developmental Dyslexia Phenotype. Hoyt BW, Fiondella CG, LoTurco JJ. Podium Presentation. University of Connecticut Biology Undergraduate Research Colloquium. Storrs, CT. April 2012.

## QUALITY IMPROVEMENT PROJECTS

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- ❖ Hoyt BW, Clark DM, Lundy AL, Langhammer C, Wagner SC. A Low-Cost, High-Fidelity Bench Model for Surgical Skill Acquisition in Orthopaedic Surgery Residents. *2019-2021*.
  - Collaborated to design and implement Orthopaedic fracture simulation model using porcine models for resident training and medical student teaching
- ❖ Hoyt BW, Roach WB. Basic Orthopaedic iNtegrated Education/Simulation (BONES) Lab. *2020*.
  - Implemented resident surgical training simulation lab and virtual training curriculum in response to decreased operative volume during initial COVID-19 shutdowns

## PROFESSIONAL MEMBERSHIPS

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- ❖ American Academy of Orthopaedic Surgeons (AAOS) Candidate Member
- ❖ Arthroscopy Association of North America (AANA) Member
- ❖ Society of Military Orthopaedic Surgeons (SOMOS) Member
- ❖ Walter Reed Bethesda (WRB) Alumni Organization
- ❖ Alpha Omega Alpha (AOA)

## COURSES & CERTIFICATIONS

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|---|--------------------------|
| ❖ Basic Life Support (ID 00PD6VR)                     | August 2023              |
| ❖ Advanced Life Support                               | March 2023               |
| ❖ Combat Orthopaedic Trauma Surgery Course (COTS+)    | November 2022            |
| ❖ USU Microvascular Surgery Course                    | November 2019            |
| ❖ AANA/SOMOS Advanced Shoulder Arthroscopy Course     | August 2019, August 2022 |
| ❖ AO Basics of Fracture Management                    | March 2018               |
| ❖ Bushmaster Military and Contingency Medicine Course | May 2016                 |
| ❖ Advanced Trauma Life Support                        | May 2016                 |

## LICENSURE

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## MILITARY PERSONAL AWARDS

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- ❖ Joint Services Commendation Medal July 2022
- ❖ Humanitarian Service Medal (Operation Allies Refuge) June 2022
- ❖ Armed Forces Services Medal January 2021
- ❖ Joint Services Achievement Medal x2 October 2020, May 2021