

## **CURRICULIM VITAE**

**MARK EVANS FLEMING, DO, FAOAO  
ORTHOPEDIC TRAUMA SURGEON**

### **ADDRESS:**

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Los Angeles, CA 90033**

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### **EDUCATION AND TRAINING**

#### ***UNDERGRADUATE:***

Alabama A&M University  
Huntsville, AL  
B.S. Physics/Computer Science  
May 1989

#### ***MEDICAL SCHOOL:***

Michigan State University  
College of Osteopathic Medicine  
East Lansing, MI  
Doctor of Osteopathic Medicine  
May 1999

## **GRADUATE MEDICAL EDUCATION**

### ***Internship***

General Surgery Internship  
Naval Medical Center Portsmouth  
Portsmouth, VA  
July 1999 – June 2000

### ***Residency Training***

Orthopedic Surgery Residency  
Michigan State University  
Mount Clemens Regional Medical Center  
Mount Clemens, Michigan 48048  
July 2002 – June 2006

### ***Fellowship***

Orthopedic Trauma Fellowship  
University of Minnesota  
Hennepin County Medical Center, Minneapolis, MN  
Regions Hospital, Saint Paul, MN  
August 2006 – July 2007

## **ACADEMIC APPOINTMENTS**

Assistant Professor of Surgery  
Uniformed Services University of the Health Sciences  
March 2008 – Present

Adjunct Professor  
Department of Biology  
Delmar College  
January 2001 – June 2002

## **CURRENT HOSPITAL PRIVILEGES**

Los Angeles County + USC Medical Center  
Los Angeles, CA 90033  
Active Staff

## **MILITARY TRAINING**

Flight Surgeon Training  
US Navy Flight Surgeon Course

Naval Aerospace Medicine Institute  
Pensacola, FL  
July 2000 - December 2001

Naval Flight Officer  
Fleet Replacement Squadron VP-31  
Moffett Naval Air Station  
Mountain View, CA  
December 1990 – May 1991

Advanced Flight Training  
Naval Air Training Unit  
Mather Air Force Base  
Sacramento, CA  
May 1990 – November 1990

Basic Flight Training  
Training Squadron 10 (VT-10)  
Naval Air Station Pensacola  
Pensacola, FL  
November 1989 – April 1990

Aviation Officer Candidate School  
Naval Aviation Schools Command  
Naval Air Station Pensacola  
Pensacola, FL  
July 1989 – October 1989

## **WORK HISTORY/ASSIGNMENTS**

### **Objective Medical Assessments Corporation**

Approved Independent Medical Examiner  
Seattle, WA

**February 2017 - Present**

### **Staff Orthopedic Trauma Surgeon**

**Deputy Director, Navy Trauma Training Center**

Los Angeles County + USC Medical Center

**September 2015 – Present**

Responsible for comprehensive management and coordination of operative and non-operative care of musculoskeletal injured patients. As a clinical educator is responsible for ensuring excellence in the overall mix of clinical care and clinical teaching for trainees.

### **Deputy Director for Surgery**

Walter Reed National Military Medical Center

**January 2013 – August 2015**

Had operational responsibility for the effective delivery of patient care by surgical services across Walter Reed National Military Medical Center. Functions within the senior management team to coordinate and integrate surgical services in-line with overall clinical operations. Works directly with the Director for Surgery to provide leadership and direction that will result in the delivery of high quality cost effective health care, education and research. Functions included OR optimization through improved utilization and reduction of turnover times. Had direct responsibility for ensuring quality across the surgical specialties and served as the National Surgical Quality Improvement Program (NSQIP) Surgeon champion for Walter Reed National Military Medical Center.

### **Chief of Surgery**

#### **Chief Orthopedic Surgeon**

Kimbrough Ambulatory Care Center

Fort Meade, MD

**May 2012 – Jan 2013**

Performed highly responsible and specialized administrative and clinical duties as the chief physician over surgical services at the Kimbrough Ambulatory Care Center. Developed and maintained programs and activities to ensure the optimum quality of clinical care and educational programs within the Department of Surgery; provided day-to-day leadership and management for the Department. Responsible for establishing and leading the Department's strategic direction pertaining to programmatic, research and educational development in alignment with MEDDAC strategy and the local needs of the Fort Meade Community.

1. Planned, organized and directed staff and controls the staff and activities within the Department of Surgery to ensure the highest quality of medical care; fostered the growth and development of Department programs; developed strategies and opportunities to improve services and operating room utilization.
2. Developed and monitored key performance metrics such as quality outcome measures and internal/external quality indicators in order to maintain departmental quality control and quality improvement; provides timely feedback to individuals on performance metrics so that quality issues are addressed in a timely manner.
3. Recruited and retained high quality surgeons to complement existing medical staff and meet patient needs.

**Chief, Orthopedic Trauma Service**  
**Staff Orthopedic Trauma Surgeon**  
Walter Reed National Military Medical Center  
**August 2007 – September 2015**

As a **staff orthopedic trauma surgeon** conducted over 4000 operative procedures on multiple patients including multiple service members injured in support of the **Global War on Terror**.

Served as a **forward deployed orthopedic surgeon** in support of Operation Iraqi Freedom. Assigned to 1 Marine Expeditionary Force, 1 Combat Logistics Battalion's Forward Resuscitative Surgical System at Camp Ramadi, Iraq. Provided critical care to US, Coalition and Iraqi Army service members injured in support of Operation Iraqi Freedom.

**Chief, Orthopedic Trauma Service** 9/08-05/12. Responsible for comprehensive management and coordination of operative and non-operative care of musculoskeletal injuries sustained by soldiers, sailors, airmen and marines injured in support of the Global War on Terror including Operation Iraqi Freedom and Operation Enduring Freedom.

**Director of Orthopedic Research** NNMC 3/09 – 7/10. Responsible for oversight of research program including serving on the NNMC Institutional Review Board which has oversight for ensuring research is conducted in accordance with established guidelines. During this period the department presented or had published over 80 research projects rivaling any academic orthopedic department in the country.

**Flight Surgeon**  
Naval Air Station Kingsville  
Commander Training Wing Two  
Kingsville, TX  
**January 2001 – June 2002**

Positions/Responsibilities

Practiced preventive medicine first and foremost. Served as the natural interface between the practice of medicine, the science of safety, and the profession of aviation. Promoted aviation safety thus decreased the potential for aircraft accidents. Conducted a dedicated search for problems; physical, mental, environmental, and man-made, which could potentially compromise safety in the air and in the workplace. Made regular visits to the squadron spaces, constantly assessed squadron esprit, safety consciousness, and the mental health of pilots and student naval aviators. Flew over 100 sorties with the squadron to observe in-flight stressors and crew coordination. Easily established rapport with flight personnel to ensure the safe completion of the assigned mission.

**Naval Flight Officer  
Patrol Plane Mission Commander**

Naval Air Station Barbers Point  
Patrol Squadron Four  
Honolulu, Hawaii

**September 1991 – July 1995**

Positions/Responsibilities

Patrol Plane Tactical Coordinator  
Patrol Plane Tactical Coordinator Instructor  
Naval Flight Officer Training Officer  
Tactics Officer

Communications/Cryptologic Officer  
Parachute Rigger Branch Officer

**September, 1991 – July, 1995**

Primary responsibilities as a Naval Flight Officer and tactical coordinator (TACCO) included coordinating the crew of the P-3 Orion to employ the sensors, systems and tactics to carry out the assigned mission. Missions included conduction Anti-submarine warfare, anti-surface warfare and drug interdiction. As a Patrol Plane Mission Commander was responsible for overall planning, coordination and conduction of the assigned mission. Completed deployments to Arabian Gulf in support of Operation Desert Storm.

**CERTIFICATION**

**Board Certified, Orthopedic Surgery**

American Osteopathic Board of Orthopedic Surgery

Passed, Part I

Passed, Part II

Passed, Part III

Independent Medical Examiner, Washington State L&I

Advanced Trauma Life Support 1999

Advanced Cardiac Life Support 2015

Basic Life Support 2016

**MEDICAL LICENSURE**

**Maryland** State Medical License # H0068499

**Virginia** State Medical License #0102201157

**Minnesota** State Medical License #48451

**California** Medical License #20A14334

**Washington** Medical License #OP60683187

## **PROFESSIONAL SOCIETIES**

American Academy of Orthopedic Surgeons  
Arthroscopy Association of North America  
American Osteopathic Association  
American Osteopathic Academy of Orthopedic Surgeons  
Orthopedic Trauma Association, past Chair, Military Committee  
Society of Military Orthopedic Surgeons

## **HONORS AND AWARDS**

### **MILITARY**

Navy Meritorious Service Medal  
Defense Meritorious Service Medal  
Army Commendation Medal  
Navy and Marine Corps Achievement Medal  
Joint Service Achievement Medal  
Southwest Asia Service Medal  
Iraq Campaign Medal  
Kuwait Liberation Medal  
Navy Meritorious Unit Commendation Medal  
Navy Unit Commendation Medal  
Global War on Terror Service Medal  
National Defense Service Medal  
Sea Service Deployment Ribbon  
Navy Battle Efficiency Ribbon  
**Master Clinician's Award** - Walter Reed National Military Medical Center  
Fleet Marine Force Warfare Officer qualified  
United States Naval Flight Surgeon designation  
Armed Forces Institute of Regenerative Medicine (AFIRM) Traveling Fellowship

### **CIVILIAN**

Awarded Fellow American Osteopathic Academy of Orthopedic Surgeons  
Hand-selected to deliver the Commencement Address at MSU-COM 2017  
Michigan State University Distinguished Alumni Award - 2013  
Michigan State University COM Alumnus of the Year 2011  
Alabama A&M University Class of 1989 "Alumnus of the Year" 2009  
Alabama A&M University MARC Research Fellow  
Awarded US Navy Baccalaureate Degree Completion Program Scholarship  
Awarded US Navy Armed Forces Health Professions Scholarship  
Nominated to Who's Who among American Colleges and Universities  
Nominated to Outstanding Young Men in America  
State of Alabama Alpha Phi Alpha Fraternity Brother of the Year

## SERVICE

Walter Reed Orthopedic Hand Fellowship selection committee member - 2011  
Team Leader – Partnership for Patients VTE Prevention Program – 2013  
Founding faculty advisor, Orthopedic Interest Group, USUHS  
AFIRM Traveling Exchange Fellow – Summer 2011  
AOBOS Oral Board (PART II) Examiner 2015, 2016, 2017  
Surgeon Champion National Surgical Quality Improvement Program (NSQIP)

## RESEARCH GRANTS, PUBLICATIONS, AND PRESENTATIONS

### PAST FUNDED RESEARCH:

1. **Principal Investigator – CDR Mark Fleming, DO. DM120195: Dermal Coverage of Traumatic War Wounds.** Department of Defense (DoD) Defense Medical Research and Development Program (DMRDP), Fiscal Year 2012 (FY12) Clinical Trial Award - Regenerative Medicine, Pain, Sensory System. **Project Duration: 48 months, Total Funding: \$1.4 million**
2. **Principal Investigator – CDR Mark Fleming, DO. OR110083: Instructive Biologic Scaffold for Functional Tissue Regeneration Following Trauma to the Extremities** Department of Defense (DoD) Defense Congressionally Directed Medical Research Programs (CDMRP) Fiscal Year 2012 (FY12) Peer Reviewed Orthopaedic Research Program (PRORP) Clinical Trial Award. **Project Duration: 36 months, Total Funding: \$1.5 million**
3. **Principal Investigator – CDR Mark Fleming, DO. OR110216: Autologous Skin Cell Spray for Massive Soft Tissue Injuries: A Prospective, Case-Control, Multicenter Trial.** Department of Defense (DoD) Defense Congressionally Directed Medical Research Programs (CDMRP) Fiscal Year 2012 (FY12) Peer Reviewed Orthopaedic Research Program (PRORP) Clinical Trial Award. **Project Duration: 36 months, Total Funding: \$2.8 million**
4. **Principal Investigator – CDR Mark Fleming, DO. OR110135P1: Large Extremity Peripheral Nerve Repair.** P.I. Robert Redmond, PhD. Department of Defense (DoD) Defense Congressionally Directed Medical Research Programs (CDMRP) Fiscal Year 2012 (FY12) Peer Reviewed Orthopaedic Research Program (PRORP) Translational Research Partnership Award. **Project Duration: 36 months, Total Funding: \$1.2 million**

### EDITOR, EDITORIAL BOARDS

Journal of Trauma  
Journal of Military Medicine



## RESEARCH AWARDS

1. 1<sup>st</sup> Place – 7<sup>th</sup> Annual National Capital Region Research Competitions Faculty category “Restoration of a Full Thickness Soft Tissue Defect with Autologous Spray Skin Epidermal Regenerative Technology in Conjunction with a Dermal Regenerate Template and Widened Meshed STSG” May 19, 2015
2. 1<sup>st</sup> Place - Mount Clemens Regional Medical Center Research Symposium. May 2006; “Predictive Factors Associated with an Increase Risk for Blood Transfusion in Patients with Peritrochanteric Hip Fractures.”

## MODERATOR

1. 2016 Annual Scientific Meeting; American Osteopathic Academy of Orthopedic Surgeons. October 10, 2016. Moderator of the Trauma Section. Washington, D.C.
2. 2012 Annual Scientific Meeting; American Osteopathic Academy of Orthopedic Surgeons. October 27, 2012. Moderator of the Trauma Section. The Broadmoor, Colorado Springs, CO.
3. AAOS/OTA/SOMOS/ORS Extremity War Injuries VII: A Decade at War: Evolution of Orthopaedic Combat Casualty Care Research Symposium. Moderator: Reconstruction section Jan 19, 2012. Mandarin. Washington, D.C.

## BOOK CHAPTERS

1. Waterman, S.; **Fleming, M.** : Combat Orthopedic Surgery: Lessons Learned In Iraq and Afghanistan. Irrigation and Debridement. Edited by Owens, B. and Belmont, P.: Thorofare, NJ, Slack Incorporated. 2011.
2. **Fleming, M:** Current Surgical Therapy. Eleventh Edition, Cameron & Cameron; Gangrene of the foot. Elsevier 2014 Philadelphia USA
3. **Fleming, M;**Sexton, J; Whittaker, D: Upper Extremity Vascular Injuries. Frontline Extremity and Orthopaedic Surgery. Springer 2014 Berlin Heidelberg pp. 143-151

## PEER REVIEWED PUBLICATIONS:

1. Kabirian N, Jiang D, **Fleming ME**, Marecek GS. Restoring Condylar Width: Radiographic Relationship Between the Lateral Tibial Plateau and Lateral Femoral Condyle in Normal Adult Knees. J Orthop Trauma. 2019 Apr;33(4):180-184
2. Rodriguez CJ, Tribble DR, Malone DL, Murray CK, Jessie EM, Khan M, **Fleming ME**, Potter BK, Gordon WT, Shackelford SA. Treatment of Suspected Invasive Fungal Infection in War Wounds. Mil Med. 2018 Sep 1;183(suppl\_2):142-146.

3. Gordon WT, **Fleming ME**, Johnson AE, Gurney J, Shackelford S, Stockinger ZT. Pelvic Fracture Care. *Mil Med.* 2018 Sep 1;183(suppl\_2):115-117.
4. Gordon W, Talbot M, **Fleming M**, Shero J, Potter B, Stockinger ZT. High Bilateral Amputations and Dismounted Complex Blast Injury (DCBI). *Mil Med.* 2018 Sep 1;183(suppl\_2):118-122.
5. Wade SM, Harrington C, **Fleming M**, Potter BK. A Combined Distal Tibial Turn-up Plasty and Intercalary Calcaneal Osteocutaneous Fillet Flap for Salvage of a Transtibial Amputation: A Case Report. *JBJS Case Connect.* 2017 Oct-Dec;7(4):e91
6. Donohoe S, Alluri RK, Hill JR, **Fleming M**, Tan E, Marecek G. Impact of Computed Tomography on Operative Planning for Ankle Fractures Involving the Posterior Malleolus. *Foot Ankle Int.* 2017 Dec;38(12):1337-1342.
7. Alluri RK, Hill JR, Donohoe S, **Fleming M**, Tan E, Marecek G. Radiographic Detection of Marginal Impaction in Supination-Adduction Ankle Fractures. *Foot Ankle Int.* 2017 Sep;38(9):1005-1010.
8. Hammer D, Rendon JL, Sabino J, Latham K, **Fleming ME**, Valerio IL. Restoring full-thickness defects with spray skin in conjunction with dermal regenerate template and split-thickness skin grafting: a pilot study. *J Tissue Eng Regen Med.* 2017 Mar 22.
9. Valerio IL, Hammer DA, Rendon JL, Latham KP, **Fleming ME**. A Case Report of the First Nonburn-related Military Trauma Victim Treated with Spray Skin Regenerative Therapy in Combination with a Dermal Regenerate Template. *Plast Reconstr Surg Glob Open.* 2016 Dec 27;4(12):
10. Stinner DJ, **Fleming ME**. Introduction. *J Orthop Trauma.* 2016 Oct;30 Suppl 3:S1.
11. Fairbairn NG, Ng-Glazier J, Meppelink AM, Randolph MA, Valerio IL, **Fleming ME**, Kochevar IE, Winograd JM, Redmond RW. Light-Activated Sealing of Acellular Nerve Allografts following Nerve Gap Injury. *J Reconstr Microsurg.* 2016 Jul;32(6):421-30
12. Hammer D, Rendon JL, Sabino J, Latham K, **Fleming ME**, Valerio IL. Restoring full-thickness defects with spray skin in conjunction with dermal regenerate template and split-thickness skin grafting: a pilot study. *J Tissue Eng Regen Med.* 2017 Mar 22. doi: 10.1002/term.2264.
13. Fairbairn NG, Ng-Glazier J, Meppelink AM, Randolph MA, Valerio IL, **Fleming ME**, Kochevar IE, Winograd JM, Redmond RW. Light-Activated Sealing of Acellular Nerve Allografts following Nerve Gap Injury. *J Reconstr Microsurg.*

2016 Jul;32(6):421-30

14. Seavey JG, Masters ZA, Balazs GC, Tintle SM, Sabino J, **Fleming ME**, Valerio IL. Use of a bioartificial dermal regeneration template for skin restoration in combat casualty injuries. *Regen Med.* 2016 Jan;11(1):81-90.
15. Valerio IL, Campbell P, Sabino J, Dearth CL, **Fleming M**. The use of urinary bladder matrix in the treatment of trauma and combat casualty wound care. *Regen Med.* 2015;10(5):611-22
16. Fairbairn NG, Ng-Glazier J, Meppelink AM, Randolph MA, Valerio IL, **Fleming ME**, Winograd JM, Redmond RW. Light-Activated Sealing of Nerve Graft Coaptation Sites Improves Outcome following Large Gap Peripheral Nerve Injury. *Plast Reconstr Surg.* 2015 Oct;136(4):739-50
17. 2: D'Alleyrand JC, Lewandowski LR, Forsberg JA, Gordon WT, **Fleming ME**, Mullis BH, Andersen RC, Potter BK. Combat-Related Hemipelvectomy: 14 Cases, a Review of the Literature and Lessons Learned. *J Orthop Trauma.* 2015 Dec;29(12):e493-8.
18. Wheatley BM, Hanley MG, Wong VW, Sabino JM, Potter BK, Tintle SM, **Fleming ME**, Valerio IL. Heterotopic Ossification following Tissue Transfer for Combat-Casualty Complex Periarticular Injuries. *Plast Reconstr Surg.* 2015 Dec;136(6):808e-14e.
19. **Fleming ME**, Bharmal H, Lewandowski L, Evans K. Combat Periarticular Tibia Injury Outcome Study (CAPTIOUS): Risk Factors For Reoperation And Amputation After Open Periarticular Tibia Fractures. *Journal of the American College of Surgeons.* 201 OCT; 221(4) e24
20. Rendon JL, Hammer D, Sabino J, Martin B, Latham K, **Fleming ME**, Valerio IL. Restoration of Full Thickness Soft Tissue Defects with Spray Skin Epidermal Regenerative Technology in Conjunction with Dermal Regenerate. *Plast Reconstr Surg.* 2015 Oct;136(4 Suppl):74.
21. Valerio IL, Campbell P, Sabino J, Lucas DJ, Jessie E, Rodriguez C, **Fleming M**. TXA in Combat Casualty Care-Does It Adversely Affect Extremity Reconstruction and Flap Thrombosis Rates? *Mil Med.* 2015 Mar;180(3 Suppl):24-8
22. Sabino J, Tintle S, Martin B, Howard R, **Fleming M**, Valerio IL. Review of Pedicled Groin and Thoracoepigastric Flaps in War-Related Extremity Trauma. *Plast Reconstr Surg.* 2015 Oct;136(4 Suppl):10-1
23. Sabino J, Polfer E, Tintle S, Jessie E, **Fleming M**, Martin B, Shashikant M, Valerio IL. A decade of conflict: flap coverage options and outcomes in

- traumatic war-related extremity reconstruction. *Plast Reconstr Surg.* 2015Mar;135(3):895-902.
24. Green JM 3rd, Sabino J, **Fleming M**, Valerio I. Intraoperative fluorescence angiography: a review of applications and outcomes in war-related trauma. *MilMed.* 2015 Mar;180(3 Suppl):37-43.
  25. Valerio IL, **Fleming M**. More Than A Decade Of Ongoing Conflict: Application And Merger Of Traditional Reconstructive Techniques With Regenerative Medicine Therapies In Traumatic Extremity Reconstruction- Introduction Of The Hybrid Reconstructive Elevator. *Tissue Engineering, Part A.* Dec 2014;20(1)S49.
  26. Valerio IL, **Fleming M**. Military-lead Novel Regenerative Medicine Case Study: Spray Skin Epidermal Regenerate in Conjunction with Dermal Regenerate for Reconstruction of Full Thickness Traumatic Soft Tissue Injuries. *Tissue Engineering, Part A.* Dec 2014;20(1)S49.
  27. **Fleming M**, Valerio IL. The Use of Urinary Bladder Matrix in the Reconstruction of Combat Related Extremity Wounds. *Tissue Engineering, Part A.* Dec 2014;20(1)S124.
  28. Sabino J, Polfer E, Tintle S, Jessie E, **Fleming M**, Martin B, Shashikant M, Valerio I. A Decade of Conflict: Flap Coverage Options and Outcomes in Traumatic War-related Extremity Reconstruction. *Plast Reconstr Surg.* 2014 Nov 20.
  29. Valerio I, Sabino J, Thomas S, Tintle S, **Fleming M**, Shashikant M, Kumar A. Multiple limbs salvaged using tissue transfers in the same casualty: a cohort comparison study chronicling a decade of war-injured patients. *Plast Reconstr Surg.* 2014 Aug;134(2):333-8
  30. **Fleming ME**, Bharmal H, Valerio I. Complications and Outcomes Associated with Combat-Related Grade III Periarticular Tibia Fractures. *Plast Reconstr Surg.* 2014 Oct;134(4 Suppl 1):30.
  31. **Fleming ME**, Bharmal H, and Valerio IL. Regenerative Medicine Applications in Combat Casualty Care. *Regenerative Medicine.* 9(2): 179-190, 2014.
  32. **Fleming ME**, O'Daniel A, Bharmal H, Valerio I. Application of the Orthoplastic Reconstructive Ladder to Preserve Lower Extremity Amputation Length. *Ann Plast Surg.* 2014 Mar 28
  33. Polfer EM, Forsberg JA, **Fleming ME**, Potter BK. Neurovascular entrapment due to combat-related heterotopic ossification in the lower extremity. *J Bone Joint Surg Am.* 2013 Dec 18; 95(24):e1951-6

34. Valerio IL, Sabino J, Bevevino A, Tintle SM, **Fleming M**, Kumar A. Sequential free tissue transfers for simultaneous upper and lower limb salvage. *Microsurgery*. 2013 Sep;33(6):447-53
35. Lewandowski L, Tintle SM, Daniel C, O'Daniel JA, **Fleming M**, Keeling J. Circular external fixation for treatment of distal humerus fractures: case report. *J Hand Surg Am*. 2013 Jun;38(6):1155-60
36. Lewandowski L, Purcell R, **Fleming M**, Gordon WT. The use of dilute Dakin's solution for the treatment of angioinvasive fungal infection in the combat wounded: a case series. *Mil Med*. 2013 Apr;178(4):e503-7
37. **Fleming ME**, Waterman SS, Lewandowski LR, Chi BB. Use of 3-dimensional stereolithographic polymer models for heterotopic ossification surgical excision. *Orthopedics*. 2013 Apr;36(4):282-6
38. Valerio I, Sabino J, Heckert R, Thomas S, Tintle S, **Fleming M**, Kumar A. Known preoperative deep venous thrombosis and/or pulmonary embolus: to flap or not to flap the severely injured extremity? *Plast Reconstr Surg*. 2013 Jul;132(1):213-20
39. Formby P, Flint J, Gordon WT, **Fleming M**, Andersen RC. Use of a Continuous External Tissue Expander in the Conversion of a Type IIIB Fracture to a Type IIIA Fracture. *Orthopedics*. 2013 Feb 1;36(2):e249-51
40. Shin E, Evans KN, **Fleming ME**. Injury severity score underpredicts injury severity and resource utilization in combat-related amputations. *J Orthop Trauma*. 2013 Jul;27(7):419-23
41. Valerio, Ian MD, MS, MBA; Sabino, Jennifer MD; Tintle, Scott MD; **Fleming, Mark DO**; Kumar, Anand MD. Emerging Trends in Limb Salvage Over the Last Decade of War Trauma. *Plastic & Reconstructive Surgery*. November 2012 - Volume 130 - Issue 5S-1 - p 55
42. Valerio, Ian MD, MS, MBA; Sabino, Jennifer MD; Tintle, Scott MD; **Fleming, Mark DO**; Howard, Robert MD; Basile, Patrick MD; Martin, Barry MD; Shashikant, Mark MD. Multiple Flap Limb Salvages within Same War Wounded Casualties: A Consecutive Case Series over a Decade of War Trauma. *Plastic & Reconstructive Surgery*. Volume 130 - 5S-1. November 2012, p 92-93
43. Valerio, Ian L. MD, MS, MBA; Heckert, Reed MD; Tintle, Scott MD; Sabino, Jennifer MD; **Fleming, Mark DO**; Kumar, Anand MD. Does Recent DVT and/or Pulmonary Embolus Preclude Complex Extremity Flap

Reconstruction? Plastic & Reconstructive Surgery. Volume 130 5S-1.  
November 2012, p 98

44. Warkentien T, Rodriguez C, Lloyd B, Wells J, Weintrob A, Dunne JR, Ganesan A, Li P, Bradley W, Gaskins LJ, Seillier-Moisewitsch F, Murray CK, Millar EV, Keenan B, Paolino K, **Fleming M**, Hospenthal DR, Wortmann GW, Landrum ML, Kortepeter MG, Tribble DR; Infectious Disease Clinical Research Program Trauma Infectious Disease Outcomes Study Group. Invasive mold infections following combat-related injuries. *Clin Infect Dis*. 2012 Dec;55(11):1441-9
45. Santiago GF, Bograd B, Basile PL, Howard RT, **Fleming M**, Valerio IL. Soft tissue injury management with a continuous external tissue expander. *Ann Plast Surg*. 2012 Oct;69(4):418-21
46. Bear J, McKay P, **Fleming M**, Nanos G, Rich N. Vascular injury and concomitant long bone fracture in war wounds. *J Vasc Surg*. 2012 Dec;56(6):1795-8. Epub 2012 Sep 23
47. **Fleming ME**, Watson JT, Gaines RJ, O'Toole RV; Extremity War Injuries VII Reconstruction Panel. Evolution of orthopaedic reconstructive care. *J Am Acad Orthop Surg*. 2012;20 Suppl 1:S74-9.
48. Ficke JR, Obremsky WT, Gaines RJ, Pasquina PF, Bosse MJ, Mamczak CN, O'Toole RV, Archer KR, Born CT, **Fleming ME**, Watson JT, Gordon WT, Stannard JP, Rispoli DM, Mackenzie EJ, Wenke JC, Hsu JR, Pollak AN, Andersen RC. Reprioritization of research for combat casualty care. *J Am Acad Orthop Surg*. 2012;20 Suppl 1:S99-102.
49. Doukas WC, Powell ET, **Fleming ME**, Strauss J. Moderators' summary: outcomes data driving technological advances (session I). *J Am Acad Orthop Surg*. 2012;20 Suppl 1:S1-2
50. Husain Bharmal, MD; Korboi N. Evans, MD, MS; Ashton Goldman, BS; Stanley Okoro, MD; **Mark E. Fleming, DO**. Use of the Vertical Rectus Abdominis Muscle Flap for an Open Pelvic Fracture Secondary to a Blast Injury: A Case Report. *JBJS Case Connector*, 2012 Aug 22;2(3):e39 1-6
51. Hall G, Griffis C, **Fleming M**, Strauss J, Andersen RC. Recognition of Small Bowel Entrapment in Pubic Symphysis Following Combat Related Traumatic Pelvic Fracture: A Case Report and Literature Review. *JBJS Case Connector* Volume 2 D Number 1 D March 28, 2012
52. **Fleming ME**, Waterman S, Dunne J, D'Alleyrand J, Andersen RC. Dismounted Complex Blast Injuries: Patterns of Injuries and Resource Utilization Associated with the Multiple Extremity Amputee. *J Surg Orthop Adv*. 21(1):32-37, 2012

53. Andersen RC, **Fleming ME**, Forsberg JA, Gordon WT, Nanos GP, Charlton MT, Ficke JR. Dismounted Complex Battle Injury. *J Surg Orthop Adv.* 21(1):2-7,2012
54. D'Alleyrand J, **Fleming ME**, Gordon WT, Potter BK, Andersen RC. Combat-Related Hemipelvectomy. *J Surg Orthop Adv.* 21(1):38-43, 2012
55. Will RE, **Fleming ME**, Lafferty PM, Fletcher JW, Cole PA. Low complication rate associated with raising mature flap for tibial nonunion reconstruction. *J Trauma.* 2011 Dec; 71(6):1709-14.
56. Hospenthal DR, Murray CK, Andersen RC, Bell RB, Calhoun JH, Cancio LC, Cho JM, Chung KK, Clasper JC, Colyer MH, Conger NG, Costanzo GP, Crouch HK, Curry TK, D'Avignon LC, Dorlac WC, Dunne JR, Eastridge BJ, Ficke JR, **Fleming ME**, Forgione MA, Green AD, et al. Executive summary: Guidelines for the prevention of infections associated with combat-related injuries: 2011 update: endorsed by the Infectious Diseases Society of America and the Surgical Infection Society. *J Trauma.* 2011 Aug;71(2 Suppl 2):S202-9. Review.
57. Hospenthal DR, Murray CK, Andersen RC, Bell RB, Calhoun JH, Cancio LC, Cho JM, Chung KK, Clasper JC, Colyer MH, Conger NG, Costanzo GP, Crouch HK, Curry TK, D'Avignon LC, Dorlac WC, Dunne JR, Eastridge BJ, Ficke JR, **Fleming ME**, Forgione MA, Green AD, et al. Guidelines for the prevention of infections associated with combat-related injuries: 2011 update: endorsed by the Infectious Diseases Society of America and the Surgical Infection Society. *J Trauma.* 2011 Aug;71(2 Suppl 2):S210-34. Review.
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- related thoracic and abdominal cavity injuries. J Trauma. 2011 Aug;71(2 Suppl 2):S270-81. Review.
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  65. **Fleming, M.**; Tintle, S.; Davila, J.; Mickel, T.; Kumar, A.; Andersen, R.; Soft Tissue Care About the Knee in High-energy War Injuries Techniques in Knee Surgery: March 2010 - Volume 9 - Issue 1 - pp 17-29
  66. Mounasamy, V.; **Fleming, M.**; Birnbaum, M.: Ipsilateral posterior sternoclavicular dislocation and fracture of the medial third clavicle: a case report. European Journal of Orthopaedic Surgery & Traumatology 2006 16(4), pages 351-353

#### **PODIUM PRESENTATIONS:**

1. **Fleming, M.**; Bharmal, H.; Lewandowski, L.; Evans, K: Posttraumatic Osteoarthritis A Significant Source Of Morbidity After Periarticular Tibia Fracture *CDR Mark E. Fleming, DO, Walter Reed National Military Medical Center, Bethesda, MD. SOMOS 2013. December 9-13, 2013. Vail, CO*
2. Kelly Currie, MD, Katherine M. Shaum, BS, **Mark Fleming, DO**, Marilyn E. Levi, MD, Ian L. Valerio, MD, MS, MBA, FACS, Joyce K. Aycock, MD. Surgical Management of Invasive Fungal Infections in Transplant Patients: Translation of lessons learned from combat casualty care to a high-risk civilian medical cohort and review of the literature. 26 October 2015
3. **Fleming, M.** IED and other Blast Related Injuries. 2016 Annual Scientific Meeting; American Osteopathic Academy of Orthopedic Surgeons. October 10, 2016. Moderator of the Trauma Section. Washington, D.C.
4. **Fleming, M.** IED and other Blast Related Injuries. The 23rd Annual USC National Trauma, Emergency Surgery and Surgical Critical Care Symposium. May 19 & 20, 2016. Pasadena, CA



5. Neil Fairbairn MD, Joanna Ng-Glazier MD, Amanda Meppelink, Mark Randolph, Jonathan Winograd MD, **Mark Fleming DO**, Ian Valerio MD, Robert Redmond PhD. Improved outcome following nerve graft reconstruction: the application of photochemical tissue bonding (PTB) and human amnion nerve wraps in a rodent model of large deficit nerve injury. New England Hand Society. 2013
6. Neil Fairbairn, MD, Joanna Ng-Glazier, MD, Amanda Meppelink, BSc Mark A. Randolph, MAS **Mark E. Fleming**, Ian L. Valerio, Jonathan M. Winograd, MD Robert W. Redmond, MD . The Application of Photochemical Tissue Bonding for Large Deficit Nerve Repair. N.E.S.P.R.S. 2014 MEETING. 6/6-8/14. Sebasco Harbor Resort. Sebasco Estates, Maine
7. Neil G. Fairbairn, MD1; Joanna Glazier1; Amanda Meppelink1; Mark Randolph1; Ian Valerio, MD, MS, MBA2; **Mark Fleming, DO3**; Robert W. Redmond, PhD4 ; Jonathan Winograd. Improving Outcome Following Delayed Peripheral Nerve Grafting: The Application of Photochemical Tissue Bonding and Crosslinked Amnion Nerve Wraps. ASPN 2015 Annual Meeting January 23-25, 2015, Atlantis, Paradise Island, Bahamas
8. Neil G. Fairbairn, MD1; Joanna Glazier1; Amanda Meppelink1; Mark Randolph1; Ian Valerio, MD, MS, MBA2; **Mark Fleming, DO3**; Robert Redmond4 ; Jonathan Winograd1 Improving Outcome Following Large Deficit Peripheral Nerve Injury: The Application of Photochemical Tissue Bonding and Crosslinked Amnion Nerve Wraps. ASPN 2015 Annual Meeting January 23-25, 2015, Atlantis, Paradise Island, Bahamas
9. **Fleming, M**; Bharmal,H; Lewandowski, L; Evans, K: Infectious Complications Associated With Combat Related Periarticular Tibia Fractures *CDR Mark E. Fleming, DO, Walter Reed National Military Medical Center, Bethesda, SOMOS 2013. December 9-13, 2013 . Vail, CO*
10. Bharmal, H; Chi, B; Lewandowski, L; **Fleming, M**: Risk Factors For Late Amputation In Combat-Related Pilon Fractures *CPT Husain M. Bharmal, MD, MPH, Walter Reed National Military Medical Center, Bethesda, MD. SOMOS 2013. December 9-13, 2013 . Vail, CO*
11. Sabino, J; Mohan, R; Valerio, I; Singh, D; **Fleming, M**; Rodriguez, E; Langer, R: The Latest Review On Comparisons And Outcomes In Extremity Coverage And Salvage Between An Established Civilian And Military Trauma Center Of Excellence *CPT Jennifer Sabino, MD, Walter Reed National Military Medical Center, Bethesda, MD. SOMOS 2013. December 9-13, 2013 . Vail, CO*
12. Sabino, J; Polfer, E; Martin, B; **Fleming, M**; Tintle, S; Valerio, I: Effects Of Tranexamic Acid In War-Related Extremity Reconstruction Cases –

- Interesting Early Findings *CPT Jennifer Sabino, MD, Walter Reed National Military Medical Center, Bethesda, MD. SOMOS 2013. December 9-13, 2013 . Vail, CO*
13. **Fleming, M**; Bharmal,H; Lewandowski, L; Evans, K: Combat Related Type II “Floating Knee” Injuries: A Report Of 28 Cases And A Review Of Literature *CDR Mark E. Fleming, DO, Walter Reed National Military Medical Center, Bethesda, MD. SOMOS 2013. December 9-13, 2013 . Vail, CO*
  14. Sabino, J; Shashikant, M; Martin, B; Potter, B; **Fleming, M**; Tintle, S; Valerio, I: Is There A Difference? Extremity Flap Coverage With Fasciocutaneous Flaps Versus Muscle Flaps – An Evolving Paradigm In Civilian And War Related Extremity Reconstruction *CPT Jennifer Sabino, MD, Walter Reed National Military Medical Center, Bethesda, MD. SOMOS 2013. December 9-13, 2013 . Vail, CO*
  15. Sabino, J; Shashikant, M; Martin, B; Potter, B; **Fleming, M**; Tintle, S; Valerio, I: Outcome Assessment Of Tissue Transfer Following Extremity Vascular Procedures – Reviewing Over A Decade Of War Related. *SOMOS 2013. December 9-13, 2013 . Vail, CO*
  16. Sabino, J; Shashikant, M; Martin, B; Potter, B; **Fleming, M**; Tintle, S; Valerio, I: Thrombocystosis – A Proposed Predictor Of Flap Failure And How Should It Be Managed? *Walter Reed National Military Medical Center, Bethesda, MD. SOMOS 2013. December 9-13, 2013 . Vail, CO*
  17. **Fleming, M**; Vanderhoof, R; Perry, N: Orthopedic Wounds Complicated By Mycobacterium Chelonae-Abscessus: A Report Of Two Cases And A Review Of The Literature *CDR Mark E. Fleming, DO, Walter Reed National Military Medical Center, Bethesda, MD. SOMOS 2013. December 9-13, 2013 . Vail, CO*
  18. **Fleming, M**; Rodriguez, C; Dunne, J; Tribble, D; Warkentein, T; Weintrob, A; Malone, D: Trials And Tribulations; The Expedited Development Of An IFI CPG *CDR Mark E. Fleming, DO, Walter Reed National Military Medical Center, Bethesda, MD. SOMOS 2013. December 9-13, 2013 . Vail, CO*
  19. Polfer, E; Forsberg, J; **Fleming, M**; Potter, B: Neurovascular Entrapment Due To Combat-Related Heterotopic Ossification In The Lower Extremity *CPT Elizabeth Polfer, MD, Walter Reed National Military Medical Center, Bethesda, MD. SOMOS 2013. December 9-13, 2013 . Vail, CO*
  20. Ian Valerio, MD, MS, MBA; Jennifer Sabino, MD; Scott Tintle, MD; **Mark Fleming, DO**; Robert Howard, MD; Patrick Basile, MD; Barry Martin, MD, Anand Kumar, MD: Extremity Reconstruction Trends in War Casualities. World Society for Reconstructive Microsurgery. 2013 World Congress & ASRM Pre-Symposium. Chicago, Illinois, USA. July 11 – 14, 2013

21. Adam Bevevino, MD; Scott Tintle, MD; Jennifer Sabino, MD; Robert Howard, MD; Patrick Basile, MD; Barry Martin, MD; **Mark Fleming, DO**; Ian Valerio, MD, MS, MBA: Sequential Free Tissue Transfers for Simultaneous Upper and Lower Limb Salvage. World Society for Reconstructive Microsurgery. 2013 World Congress & ASRM Pre-Symposium. Chicago, Illinois, USA. July 11 – 14, 2013
22. Ian Valerio, MD, MS, MBA; Jennifer Sabino, MD; Scott Tintle, MD; **Mark Fleming, DO**; Mark Shashikant, MD; Thomas Chung, DO; Kerry Latham, MD; Robert Howard, MD; Patrick Basile, MD and Barry Martin, MD, Limb Salvage in the War Wounded – Increasing Call for Multiple Flap Coverage for Poly limb Salvage Cases. World Society for Reconstructive Microsurgery. 2013 World Congress & ASRM Pre-Symposium. Chicago, Illinois, USA. July 11-14, 2013
23. Bharmal H, Steelman T, **Fleming M**. Intraoperative Assessment of Hardware Placement with the Use of 3D CT in the treatment of Combat Related Pelvic Trauma: A Case Report and Review of the Literature. Virginia Orthopaedic Society, May 2013, Washington DC
24. Bharmal H, Valerio I, **Fleming M**. Regenerative Medicine Applications in Combat Casualty Care. Virginia Orthopaedic Society, May 2013, Washington DC
25. Ian L. Valerio, MD, MS, MBA; Jennifer Sabino, MD; Reed Heckert, MD; Scott M. Tintle, MD; **Mark Fleming, DO**; Anand Kumar, MD; Known Pre-operative DVT and/or Pulmonary Embolus – To Flap or Not to Flap the Severely Injured Extremity? AAHS Annual Meeting Jan 9-12, 2013, Naples, FL
26. H. Bharmal, K. Evans, B. Chi, M. Hanley, **M. Fleming**: Complications And Re-Operations Associated With Combat-Related Tibial Plateau Fractures. Podium Presentation Society of Military Orthopedic Surgeons 54<sup>th</sup> Annual Meeting, Naples, FL. Dec 11-14, 2012.
27. **M Fleming**, K. Evans, H. Bharmal: Application Of A TSF Removal Protocol After Successful Acute Tibia Fracture Management. Podium Presentation Society of Military Orthopedic Surgeons 54<sup>th</sup> Annual Meeting, Naples, FL. Dec 11-14, 2012.
28. H. Bharmal, K. Evans, B. Chi, M. Hanley, **M. Fleming**: Complications And Re-Operations Associated With Combat-Related Tibial Plateau Fractures. Podium Presentation Society of Military Orthopedic Surgeons 54<sup>th</sup> Annual Meeting, Naples, FL. Dec 11-14, 2012.

29. J. D'Alleyrand, S. Tintle, **M. Fleming**, W. Gordon, R. Andersen, B. Mullis, B. Potter: Combat-Related Hemipelvectomy: Eleven Cases, A Review Of The Literature And Lessons Learned. Podium Presentation Society of Military Orthopedic Surgeons 54<sup>th</sup> Annual Meeting, Naples, FL. Dec 11-14, 2012.
30. S. Tintle, I. Valerio, J. Sabino, **M. Fleming**, R. Heckert: Extremity Flap Coverage And Identified Trends Over The Last Decade Of War Reconstruction Experience. Podium Presentation Society of Military Orthopedic Surgeons 54<sup>th</sup> Annual Meeting, Naples, FL. Dec 11-14, 2012.
31. R. Heckert, S. Tintle, A. Kumar, **M. Fleming**, I. Valerio: Does Recent DVT And/Or Pulmonary Embolus Preclude Complex Extremity Flap Reconstruction?. Podium Presentation Society of Military Orthopedic Surgeons 54<sup>th</sup> Annual Meeting, Naples, FL. Dec 11-14, 2012.
32. S. Tintle, I. Valerio, J. Sabino, G. Santiago, **M. Fleming**, R. Heckert. Multiple Flap Procedures for Double or Triple Extremity Salvage within the Combat Injured Patient – A Consecutive Case Series. Podium Presentation Society of Military Orthopedic Surgeons 54<sup>th</sup> Annual Meeting, Naples, FL. Dec 11-14, 2012.
33. G. Santiago, S. Thomas, M. Vasquez, J. Sabino, **M. Fleming**, R. Howard, I. Valerio. External Tissue Expander Used As A 'Dynamic Bolster' In The Management Of Large Donor-Site Soft Tissue Defects. Podium Presentation Society of Military Orthopedic Surgeons 54<sup>th</sup> Annual Meeting, Naples, FL. Dec 11-14, 2012.
34. O'Daniel, **M. Fleming**, I. Valerio, K. Evans: Soft Tissue Coverage Options For Traumatic Lower Extremity Amputation Length Preservation. Podium Presentation Society of Military Orthopedic Surgeons 54<sup>th</sup> Annual Meeting, Naples, FL. Dec 11-14, 2012.
35. R. Heckert, S. Tintle, R. Howard, P. Basile, L. Nesti, **M. Fleming**, I. Valerio. The Use Of Intraoperative Fluorescent Angiography To Assess Flap Perfusion And Optimize Soft Tissue Coverage In Wartime Extremity Wounds. Podium Presentation Society of Military Orthopedic Surgeons 54<sup>th</sup> Annual Meeting, Naples, FL. Dec 11-14, 2012.
36. L. Lewandowski, **M. Fleming**, R. Purcell, W. Gordon: The Use Of Dilute Dakin's Solution For The Treatment Of Angioinvasive Fungal Infection In The Combat Wounded: A Case Series. Podium Presentation Society of Military Orthopedic Surgeons 54<sup>th</sup> Annual Meeting, Naples, FL. Dec 11-14, 2012.
37. Reed Heckert, Scott M. Tintle, **Mark Fleming**, Ian L. Valerio. Does Recent DVT and/or Pulmonary Embolus Preclude Complex Extremity Flap

- Reconstruction? Accepted for podium presentation AAOS Annual Meeting March 22, 2013. Chicago, IL.
38. Reed Heckert ,Scott M. Tintle, **Mark Fleming**, Ian L. Valerio. Intraoperative Fluorescent Angiography to Assess Flap Perfusion and Optimize Coverage of Wartime Extremity Wounds. Accepted for podium presentation AAOS Annual Meeting March 22, 2013. Chicago, IL.
  39. Jean-Claude D'Alleyrand, MD, Scott M. Tintle, MD, **Mark Fleming, DO**, Wade T. Gordon, MD, Romney C. Andersen, MD, Brian Mullis, MD, Benjamin K. Potter, MD. Combat-Related Hemipelvectomy: Eleven Cases, a Review of the Literature and Lessons Learned Accepted for podium presentation AAOS Annual Meeting March 22, 2013. Chicago, IL.
  40. **Fleming M**: Decision Making in Mangled Extremity Management. 2012 Annual Meeting American Academy of Orthopedic Surgeons. October 27, 2012. The Broadmoor, Colorado Springs, CO.
  41. **Fleming M**: Recognizing the Unsalvageable Limb: When to Choose Primary Amputation. 2012 Annual Meeting American Academy of Orthopedic Surgeons. October 27, 2012. The Broadmoor, Colorado Springs, CO.
  42. Ian L. Valerio, MD, MS, MBA, Reed Heckert, MD, Scott Tintle, MD, Jennifer Sabino, MD, **Mark Fleming, DO**. Known Pre-operative DVT and/or Pulmonary Embolus - To Flap or Not to Flap the Severely Injured Extremity? North Eastern Society of Plastic Surgeons. September 27, 2012. Boston, MA
  43. **Fleming M**: Orthopedic Lessons Learned From A Decade At War: Limb Salvage And Amputation Management. Michigan State University Grand Rounds. Statewide Campus System, July 11, 2012. Troy, MI
  44. **Fleming M**: Orthopedic Lessons Learned From A Decade At War: Limb Salvage And Amputation Management. 52nd Postgraduate Seminar American Osteopathic Academy of Orthopedics. May 4, 2012. The Greenbrier Resort, White Sulphur Springs, WV
  45. Valerio I; Heckert R; Tintle S; **Fleming M**; Kumar A: Does Recent DVT and/or Pulmonary Embolus Preclude Complex Extremity Flap Reconstruction? Accepted for presentation 55<sup>th</sup> Annual Ohio Valley Society of Plastic Surgeons. May 2012
  46. Valerio I; Sabino J; Tintle S; **Fleming M**; Kumar A: Emerging Trends In Limb Salvage Over the Last Decade of War Trauma. Accepted for presentation 55<sup>th</sup> Annual Ohio Valley Society of Plastic Surgeons. May 2012
  47. **Fleming M**; Valerio I: Regenerative Medicine Applications in Combat

- Casualty Care. Podium Presentation. The 7<sup>th</sup> Symposium on Biologic Scaffolds for Regenerative Medicine. Napa Valley, CA . April 2012
48. **Fleming M;** Valerio I: Regenerative Medicine Applications in Combat Casualty Care. Podium Presentation. Regenerative Tissue Engineering and Transplantation. Breckenridge, CO. April 2012
  49. **Fleming M:** Challenges in Combat Orthopedic Surgery. Podium Presentation. Armed Forces Institute of Regenerative Medicine All Hands Meeting. ST Pete Beach, FL. Feb 2012
  50. **Fleming, M;** Waterman, S et al: Resource use Among Multiple Extremity Amputees Injured in Combat. AAOS 2012 San Francisco, CA. Podium Presentation
  51. **Fleming, M:** Overview of Dismounted Complex Blast Injuries. Podium Presentation. Extremity War Injuries VII Symposium. Washington, D.C. Jan 2012
  52. **Fleming, M;** Waterman, S et al: Acute Hospital Resource Utilization for Combat Injured Multiple Extremity Amputees injured in support of Operation Iraqi Freedom and Operation Enduring Freedom. Podium Presentation SOMOS, December 2011
  53. **Fleming, M.;** Wagner, S.: The Relationship between Clinical and Academic Productivity in a Military Orthopedic Surgery Department. Accepted for Podium Presentation SOMOS, December 2011
  54. **Fleming, M.;** Wagner, S.; Wuerdeman, M.; Vanderhoof, R.; Injury Severity during different periods of Operation Iraqi Freedom and Operation Enduring Freedom: 2007-2009 versus 2010. Podium Presentation SOMOS, December 2011
  55. Shin, E.; **Fleming, M.;** Nesti, L.: Is The Presence Of A Combat Related Traumatic Upper Extremity Amputation A Marker For Increased Injury Severity? Podium Presentation SOMOS, December 2011
  56. **Fleming ME.** Early Surgical Management of the Multiple Extremity Amputee. 28th CSH JTF Brief Wednesday, December 12, 2011
  57. **Fleming ME.** Extremity Trauma: Orthopaedic, Vascular, Soft Tissue. Presented at the 97th Annual American College of Surgeons Clinical Congress in San Francisco, CA. ACS 2011 Annual Clinical Congress 10/30/11

58. **Fleming ME.** Challenges in Combat Orthopedic Surgery. Podium Presentation. Armed Forces Institute of Regenerative Medicine Synergy Meeting. Bethesda, MD. October 2011.
59. Gabriel F. Santiago, M.D., Patrick L. Basile, M.D., Robert T. Howard, M.D., **Mark Fleming, D.O.**, Romney Andersen, M.D., Ian L. Valerio, M.D., M.S., M.B.A.. Management of Massive Soft Tissue Injury of the Extremity using External Tissue Expansion. Northeastern Society of Plastic Surgeons 28<sup>th</sup> Annual Meeting. Oct 20-23, 2011. Amelia Island, FL
60. **Fleming ME.** Complex Amputation Management. 2011 OTA Annual Meeting San Antonio, Tx Complex Trauma from Combat – Reconstruction, Rehab and Orthotics Mini-Symposium 10/15/11
61. **Fleming ME.** Combat Amputation Management. 2011 OTA Annual Meeting San Antonio, Tx Amputations In trauma. Getting the most out of your limb 10/14/11
62. **Fleming ME.** USUHS MS-3 Lecture “Orthopaedic Extremity Trauma” Surgery Clerkship 6 October 2011
63. **Fleming ME.** Early Surgical Management of the Multiple Extremity Amputee Orthopedic Interest Group. USUHS 9/14/11
64. **Fleming, M;** Waterman, S et al: Acute Hospital Resource Utilization for Combat Injured Multiple Extremity Amputees injured in support of Operation Iraqi Freedom and Operation Enduring Freedom. Podium Presentation Eastern Orthopedic Association, October 2011
65. **Fleming, M:** Irrigation and Debridement. Combat Extremity Course. Vail, CO Dec 14, 2010
66. **Fleming, M:** A Primer on the Management of Infected Nonunions and Chronic Osteomyelitis of the Tibia. Presented Howard University Orthopedic Grand Rounds May 2010
67. Keeling, J. J.; Andersen, R. C.; Forsberg, J. A.; Potter, B. K.; Gwinn, D. E.; **Fleming, M.;** McGuigan, F. X.; Ficke, J. R.; and Pollak, A. N.: "Transitional and Definitive Casualty Care: Current Experience and Future Directions." HSS Alumni Association 90th Annual Meeting, New York, N.Y. November 2008.
68. **Mark Fleming:** Predictive Factors Associated with an Increase Risk for Blood Transfusion in Patients with Peritrochanteric Hip Fractures. 1<sup>st</sup> Place award at the Mount Clemens Regional Medical Center Research Symposium. May 2006

69. **Mark Fleming:** Predictive Factors Associated with an Increase Risk for Blood Transfusion in Patients with Peritrochanteric Hip Fractures. Poster presentation Michigan Osteopathic Association. May 2006
70. **Mark Fleming:** Predictive Factors Associated with an Increase Risk for Blood Transfusion in Patients with Peritrochanteric Hip Fractures. 2<sup>nd</sup> place award Presented at Michigan State University Statewide Campus System Research Symposium. June 2006

## POSTER PRESENTATIONS

1. Bharmal H, Lewandowski L, Evans K, MD, Pokorny B, **Fleming M.** Complications And Re-Operations Associated With Combat-Related Tibial Plateau Fractures. Military Health System Research Symposium (MHSRS). 12-15 August 2013; Fort Lauderdale, Florida
2. Bharmal H, Lewandowski L, Evans K, MD, Pokorny B, **Fleming M.** Complications And Re-Operations Associated With Combat-Related Tibial Plateau Fractures. Military Health System Research Symposium (MHSRS). 12-15 August 2013; Fort Lauderdale, Florida
3. Bharmal H, Steelman T, **Fleming M.** Intraoperative Assessment of Hardware Placement with the Use of 3D CT in the treatment of Combat Related Pelvic Trauma: A Case Report and Review of the Literature. Military Health System Research Symposium (MHSRS). 12-15 August 2013; Fort Lauderdale, Florida
4. Bharmal H, Valerio I, **Fleming M.** Regenerative Medicine Applications in Combat Casualty Care. Military Health System Research Symposium (MHSRS). 12-15 August 2013; Fort Lauderdale, Florida
5. **Fleming, ME;** Hamilton, B; Lee, N; Valerio, I; Advancements in Existing and Emerging Therapies: Selected Collaborative Efforts Among Military and Civilian Centers. Military Health System Research Symposium (MHSRS). 12-15 August 2013; Fort Lauderdale, Florida
6. Bharmal H, Lewandowski L, Evans K, MD, Pokorny B, **Fleming M.** Complications And Re-Operations Associated With Combat-Related Tibial Plateau Fractures. Virginia Orthopaedic Society, May 2013, Washington DC
7. Bharmal H, Valerio I, Evans K, **Fleming M.** Soft Tissue Coverage Options for Traumatic Lower Extremity Amputation Length Preservation. Virginia Orthopaedic Society, May 2013, Washington DC



8. Bharmal H, **Fleming M**. Application of a TSF Removal Protocol after Acute Tibia Fracture Management. Virginia Orthopaedic Society, May 2013, Washington DC.
9. Bharmal H, Lewandowski L, Evans K, MD, PokornyB, **Fleming M**. Complications And Re-Operations Associated With Combat-Related Tibial Plateau Fractures. Maryland Orthopaedic Association, April, 2013, Baltimore MD
10. CPT Peter Formby, M.D., LT James Flint, M.D., LTC Wade T. Gordon, M.D., CDR **Mark Fleming, D.O.**, COL Romney C. Andersen, M.D. Use of a Continuous External Tissue Expander in the Conversion of a Type-IIIB Fracture to a Type-IIIA Fracture. Presented at the 2013 AAOS/OTA/SOMOS/ORS Extremity War Injuries VIII symposium. Washington, D.C. Feb 11-13, 2012
11. Jean-Claude D'Alleyrand, MD, Scott M. Tintle, MD, **Mark Fleming, DO**, Wade T. Gordon, MD, Romney C. Andersen, MD, Brian Mullis, MD, Benjamin K. Potter, MD. Combat-Related Hemipelvectomy: Eleven Cases, a Review of the Literature and Lessons Learned. Presented at the 2013 AAOS/OTA/SOMOS/ORS Extremity War Injuries VIII symposium. Washington, D.C. Feb 11-13, 2012
12. **M. Fleming**, H. Bharmal, T. Steelman: *Intraoperative Assessment Of Hardware Placement With The Use Of 3D CT In The Treatment Of Combat Related Pelvis Trauma*. Poster Presentation Society of Military Orthopedic Surgeons 54<sup>th</sup> Annual Meeting, Naples, FL. Dec 11-14, 2012.
13. **M. Fleming**, I. Valerio: *Regenerative Medicine Applications In Combat Casualty Care*. Poster Presentation Society of Military Orthopedic Surgeons 54<sup>th</sup> Annual Meeting, Naples, FL. Dec 11-14, 2012.
14. P. Formby, J. Flint, W. Gordon, **M. Fleming**, R. Andersen: *Use Of A Continuous External Tissue Expander In The Conversion Of A Type-IIIB Fracture To A Type-IIIA Fracture*. Poster Presentation Society of Military Orthopedic Surgeons 54<sup>th</sup> Annual Meeting, Naples, FL. Dec 11-14, 2012.
15. Scott M. Tintle, MD, Reed Heckert, MD, Jennifer Sabino, MD, **Mark Fleming**, Ian L. Valerio: Extremity Flap Coverage and Identified Trends Over the Last Decade of War Reconstruction Experience. Accepted for poster presentation AAOS Annual Meeting March 22, 2013. Chicago, IL.
16. C Rodriguez, J Dunne, D Tribble, J Wells, **M Fleming**, T Warkentien , A Weintrob, and the TIDOS Working Group: Trials and Tribulations; the Expedited Development of an Invasive Fungal Infection (IFI) Clinical Practice Guideline (CPG). Presented at the Annual Surgical Infection Society, N.A. Meeting, April 2012

17. Louis Lewandowski, **Mark Fleming**, Richard Purcell, Wade T. Gordon: The Use of Dilute Dakin's Solution for the Treatment of Angioinvasive Fungal Infection in the Combat Wounded: A Case Series. Maryland Orthopedic Association Annual Meeting, April 2012.
18. Steelman T; Husain B; **Fleming M**: Intraoperative Assessment of Hardware Placement with the Use of 3D CT in the treatment of Combat Related Pelvic Trauma: A Case Report and Review of the Literature. 4<sup>th</sup> National Capital Region Case Report Poster Competition. April 2012
19. **Fleming M**; Waterman S; Lewandowski L; Chi B: The Use of Stereolithographic Polymer Models Based on 3-Dimensional Multislice Computed Tomography for Heterotrophic Ossification Excision: A Report of Four Cases and Review of Literature. 4<sup>th</sup> National Capital Region Case Report Poster Competition. April 2012
20. **Fleming M**; Valerio I: Regenerative Medicine Applications in Combat Casualty Care. Poster Presentation. The 7<sup>th</sup> Symposium on Biologic Scaffolds for Regenerative Medicine. Napa Valley, CA . April 2012
21. **Fleming M**; Valerio I: Regenerative Medicine Applications in Combat Casualty Care. Poster Presentation. Regenerative Tissue Engineering and Transplantation. Breckenridge, CO. April 2012
22. C Rodriguez, DO, J Dunne, MD, D Tribble, Dr.P.H, J Wells, MD, **M Fleming, DO**, Tyler Warkentien, MD, A Weintrob, MD, and the TIDOS Working Group: Trials and Tribulations; the expedited development of an IFI CPG. Poster Presentation. Surgical Infection Society. Dallas, TX. April 18-21
23. Shin, E.; **Fleming, M.**; Nesti, L.: Is The Presence Of A Combat Related Traumatic Upper Extremity Amputation A Marker For Increased Injury Severity? Poster Presentation American Society for Surgery of the Hand. September 2011
24. Hall G, Griffis C, **Fleming M**, Strauss J, Andersen RC. Recognition of Small Bowel Entrapment in Pubic Symphysis Following Combat Related Traumatic Pelvic Fracture: A Case Report and Literature Review. USUHS Research Day Poster Presentation May 2011
25. **Fleming, M.**; Combat Blast injuries to the Pelvis and Acetabulum Associated with Multiple Extremity Amputations. Poster Presentation SOMOS, December 2011

26. Bear J, McKay P, **Fleming M**, Nanos G, Rich N. Concomitant Long Bone Fracture and Vascular Injury in War Wounds. Society of Military Orthopaedic Surgeons. San Diego, CA. December 13-16, 2011.
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29. **Fleming, M**; Waterman, S: Acute Hospital Resource Utilization for Combat Injured Multiple Extremity Amputees injured in support of Operation Iraqi Freedom and Operation Enduring Freedom. Poster Presentation Presented December 14, 2010 Society of Military Orthopedic Surgeons
30. **Fleming, M**; Waterman, S: The use of Stereolithographic polymer models based on 3D multislice computed tomography for Heterotrophic Ossification Excision: A report of 3 cases and review of the literature. Poster Presentation December 14, 2010 Society of Military Orthopedic Surgeons