

CURRICULUM VITAE

NAME:

Robert M. Harris, MD
Medical Director of Orthopaedic Trauma
Hughston Clinic
Midtown Medical Center
Columbus GA 31901 November 2103 to Present

Clinical Instructor Jack Hughston Memorial Hospital –Phenix City AL
Jan 2014 to Present

Medical Director of Orthopaedic Trauma, Johnson City Medical Center
Program Director Orthopaedic PA Fellowship
East Tennessee State University Quillen School of Medicine Jan 2011 to October 2013

Chief of Orthopaedic Surgery, Holston Valley Medical Center
Kingsport Tennessee 2006-2010

Chairman and Program Director Orthopaedic Surgery/Trauma Director
Atlanta Medical Center Atlanta GA 2004-2006

Associate Professor Emory University School of Medicine 2002-2004

Assistant Professor, University of Miami 2001-2002

Assistant Professor, University of Maryland-Shock Trauma 2000-2001
Department of Orthopaedic Surgery

Clinical Assistant Professor Uniformed Services University of the Health Sciences-
Bethesda MD 1995 – Present

Clinical Associate Professor Department of Surgery East Tennessee State University
Quillen School of Medicine 2006 - Present

Assistant Professor of Orthopaedic Surgery, LMU-DeBusk College of Osteopathic
Medicine, Harrogate, TN 2009 - Present

OFFICE ADDRESS:

Hospital

408 North State of Franklin Rd. Suite 31
Johnson City Tennessee 37604

(423) 431-2477

(423) 431-2478 FAX

EDUCATION:

United States Military Academy
West Point, New York
BS, Chemistry, May 1983

University of Virginia, School of Medicine
Charlottesville, Virginia
M.D., May 1987

HOSPITAL TRAINING:

Transitional Internship, Brooke Army Medical Center
San Antonio, Texas
July 1987 - June 1988

General Medical Officer, Fort Hood, Texas
July 1988 - June 1989

Orthopaedic Residency, Brooke Army Medical Center
San Antonio, Texas
June 1989 - June 1993

Orthopaedic Trauma Fellowship
University of Texas Southwestern Medical Center at Dallas
August 1995 - July 1996

PROFESSIONAL APPOINTMENTS:

Clinical Associate Professor, Emory University Orthopaedic Department
Assistant Professor, University of Miami
Department of Orthopaedics and Rehabilitation
Assistant Professor University of Maryland-Shock Trauma
Department of Orthopaedic Surgery
Clinical Assistant Professor, Uniformed Services University of
The Health Sciences, Bethesda, Maryland
Clinical Associate Professor, Southwest Biomedical Research
Center, San Antonio, Texas
Clinical Associate Professor University of Texas Health Science
Center, San Antonio, Texas

CERTIFICATION:

American Board of Orthopaedic Surgery, July 1995
Recertification expires Dec 2017
Advanced Trauma Life Support
Advanced Cardiac Life Support

Basic Life Support

LICENSURE:

Georgia State Board of Medical Examiners
Tennessee expires August 10, 2015

CURRENT PROFESSIONAL ACTIVITIES:

Fellow of the American Academy of Orthopaedic Surgeons
Orthopaedic Trauma Association
Georgia Orthopaedic Association
Southern Orthopaedic Association
Society of Military Orthopaedic Surgeons
Reviewer for Journal of Trauma 1996 to present
Consultant Reviewer for Journal of Bone and Joint Surgery 2001-present
Consultant Reviewer for Clinical Orthopaedics and Related Research

International Organizations

The Technical Cooperation Program (TTCP)
KTA 1-35 Antipersonnel Landmine Protection Working Group
KTA 1-34 Light Armor Landmine Protection
NATO Exploratory Team: Landmine Protection Issues
NATO Technical Group: Landmine Protection Issues

EXPERIENCE:

Company Commander, West Point, 1983
Battalion Commander, West Point, 1983
Strength Coach, West Point, 1983
Research Assistant, Microvascular Lab, University of Virginia
Plastic Surgery Department, 1985 - 1987
Chief Resident, Department of Orthopaedics, Brooke Army Medical Center, 1993
Staff Orthopaedic Surgeon, Fort Bragg, North Carolina, 1993-1995
Orthopaedic Consultant, Joint Special Operations Command, Fort Bragg, North Carolina, 1993-1995
Orthopaedic Trauma Fellow - Parkland Memorial Hospital, Dallas, Texas, 1995-1996
Chief of Extremity Trauma and Research – U.S. Army Institute of Surgical Research /Brooke Army Medical Center –San Antonio, Texas, 1996-2000
Surgical Consultant, Combat Casualty Care/ U.S. Army Medical Research and Materiel Command, Fort Detrick, Maryland, 2000 – Oct 01
Staff Orthopaedic Surgeon, University of Maryland-Shock Trauma Unit Sept 00-Oct 01
Staff Surgeon and Director of Orthopaedic Trauma and Research-Army Training Center Oct 01-Nov 02

Chief of Orthopaedic Surgery-Grady Memorial Hospital, Emory University Atlanta GA-
Nov 02-Jul 04
Chairman and Program Director Atlanta Medical Center-Community based program 3
residents/yr, Orthopaedic Trauma Fellow

PUBLICATIONS:

Injuries of the Head from Backface Deformation of Ballistic Protective Helmets Under Ballistic Impact* Karin A. Rafaels,¹ Ph.D.; Hattie C. Cutcliffe,² B.S.E.; Robert S. Salzar,¹ Ph.D.; Martin Davis,¹ M.S.; Brian Boggess,¹ M.S.; Bryan Bush,¹ M.D.; Robert Harris,³ M.D.; Mark Steve Rountree,⁴; Ellory Sanderson,⁵ B.S.; Steven Campman,⁶ M.D.; Spencer Koch,⁷ M.D.; and Cameron R. 'Dale' Bass,² Ph.D. *J Forensic Sci*, 2014 doi: 10.1111/1556-4029.12570

Testerman GM, Harris RM, West M Full-time Orthopaedic Traumatologists Enhance Rural Trauma Center Pelvic fracture outcomes and Financials. *Am Surg* Jun 2011; 77 (6) 716-9,

Harcke HT, Schauer DA Harris RM, Campman SC, Lonergan GJ. Imaging Body Armor. *Military Medicine* Apr 167 (4) 267-71 2002.

Starr AJ, Walter JC, RM Harris Reinert CM, Jones AL, Percutaneous Screw fixation of fractures of the Iliac wing and fracture dislocations of the sacro-iliac joint (OTA types 61-B2.2 and 61-B2.3 or Young-Burgess Type II pelvic fractures. *Journal of Orthopaedic Trauma*, 16(2) 116-123.

R.M. Harris, Use of an intermittent foot compression pump following lower extremity total joint arthroplasty. *American Journal of Orthopaedic Surgery*, 25 (2): 127 - 134. 1996.

R.M. Harris, Use of intermittent foot compression in the reduction of postoperative swelling in lower extremities requiring external fixation. *Journal of Orthopaedic Trauma* May 1996.

R.M. Harris, Intermittent compression of the plantar venous following total joint arthroplasty (Audio) in *Continuing Education in Orthopaedic Surgery*, 25 (9), Dec 1993.

R.M. Harris, Intramedullary nailing for chronic tibial stress fractures. *American Journal of Sports Medicine*, 24 (5).

R.M. Harris, Patella Fractures Ch 43. *Fractures in Adults*. Rockwood, Green, Bucholz, Heckman Ed. Lipponcott, Philadelphia, Pennsylvania, 2001.

R.M. Harris, Patella Fractures Ch 49. *Fractures in Adults*. Rockwood, Green, Bucholz, Heckman Ed. Lipponcott, Philadelphia, Pennsylvania, 2005

M.S. Rountree, R.M. Harris, E. Sanderson. (June 2000). Solving the global landmine epidemic through basic science research. Journal of Mine Action, 4.2, (<http://www.hdic.jmu.edu/hdic/journal/4.2/Focus/GLE/global.htm>).

R.M. Harris, L.V. Griffin, R.A. Hayda, M.S. Rountree, R. Bryant, N.D. Rossiter, S.J. Mannion (1999) The effects of antipersonnel blast mines on the lower extremity. IRCOBI, September 23-24, 1999.

Harris, R.M., Rountree, M.S Griffin, L.V., Bice, T.G., and Mannion, S.J. (2001, November). The effects of antipersonnel blast mines on the lower extremity; Lower extremity assessment program. Proceedings of the 71st Shock and Vibration Symposium, Alexandria, VA.

Harris, R.M., Rountree, M.S., Griffin, L.V., Hayda, R.A., Bice, T.G., and Mannion, S.J. (2000, August). Final report of the lower extremity assessment program (LEAP 99-2) (Vol. II). (Report No. ATC-8199). Aberdeen Proving Grounds, MD: U.S. Army Institute of Surgical Research.

Harris; R.M., Griffin; L.V., Hayda, R.A., Rountree, M.S., Bryant; R., Rossiter, N.D., and Mannion, S.J. (1999, September) The effects of antipersonnel blast mines on the lower extremity. Proceedings of the International Research Council On the Biomechanics of Impact, Sitges, Spain.

U.S. Army Communications and Electronics Command, Night Vision Electronic Sensors Directorate. (1999, August). Final report of the lower extremity assessment program (LEAP) (Vol. I). (Report No. ATC-8199). Aberdeen Proving Grounds, MD: U.S. Army Aberdeen Test Center.

U.S. Army Communications and Electronics Command, Night Vision Electronic Sensors Directorate. (1999, August). Interim report of the lower extremity assessment program (LEAP). (Report No. ATC-8194). Aberdeen Proving Grounds, MD: U.S. Army Aberdeen Test Center.

Harris, R.M., Hayda, R.A., Rountree, M.S., Toliver D., Sanderson, T.E., Wheeler, B.E. (1999, March). Lower extremity assessment program (LEAP): pilot study report. (Report No. ATC-8172). Aberdeen Proving Grounds, MD: U.S. Army Institute of Surgical Research.

RESEARCH:

Grants and Research Funding

Landmine Extremity Assessment Project (LEAP) - DoD USA CECOM Ft Belvoir VA 1.5 mil 1998-2000

Blast Airman and Injury Tests-DoD Defense Threat Reduction Agency -450K- 1999-2000

Biomechanical Impact of new Ballistic Helmets-Natick Labs, Medical Research and Materiel Command (MRMC)-450K- 2000-2001

Frangible Surrogate Leg in Blast testing- USA CECOM Ft Belvoir VA-75K-1999-2000

Evaluation of Antiblast Suit (ABS) - USA CECOM Ft Belvior VA 300K- 2001-present
Associate PI- A Micromechanics Model of Cortical Bone Deformation–110K MPMC,
600K NIH-Dr Lanny Griffin –PI-2000-2003
Behind Body Armor Injury Evaluation-Walter Reed Institute of Army Research
Washington DC, - 3 mil - 2002-2005
Human Effects Center-to build a world class facility to evaluate blast and ballistic effects
utilizing anthropomorphic, cadaver, and animal models at Aberdeen Test Center MD-
Medical Director – Congressional funding- 25 mil 2002, 25 mil 2003, 10 mil 2004
Wyeth Research-BMP study at Grady memorial hospital-150K 2003-2004
Synthes Research Grant 75K 2005-2006

PRESENTATIONS:

Southeastern Fracture Symposium: January 2015 Charleston SC
Complications of Locked Plating

Atlanta Trauma Meeting- April 25-27 2013, Dr Bruce Ziran course Director

1. Infection in war injuries
2. Tibia pilon fractures
3. Military injuries an Update :New Research and techniques Key Note Speaker

Southeastern Fracture Symposium: January 2013 Charleston SC
Pelvic fractures

Southeastern Fracture Symposium: Feb 2012 Durham NC
Anterior Approach to the hip
Tibia fractures
Lab Instructor

MSHA Trauma Symposium May 2012 Johnson City TN
Pelvis Fractures: First Responders
Compartment

MSHA Trauma Symposium May 2011
Johnson City TN
Damage Control Orthopedics
Limb Salvage

Course Director New Technology and Techniques in Orthopaedic Trauma- Meadowview
Convention Center Kingsport TN August 19, 2006
Damage Control Orthopaedics
New Techniques in the Treatment of Pelvis and Acetabular Fractures

Treatment Options for Difficult Fractures: An Advanced Technology symposium Atlanta,
Georgia March 11, 2006 Co Chairman.

Trauma Association of Georgia February 2006 “Damage Control Orthopaedics –Blood, bolts and binders” Atlanta GA

Director Extremity War Surgery Course-Course for Eisenhower Army Medical Center before deployment to Iraq. Lectures, sawbones and cadaver workshop. Oct 2005

Course Director “Trauma for the Orthopaedic Surgeon: 2004 and Beyond Apr 30- May 1 2004, Atlanta GA

University of Virginia Grand Rounds Jan 2004 “Blast and Ballistic Injuries”-an Orthopaedic Perspective. University of Virginia Department of Orthopaedic Surgery

Clavicle Fractures American Academy of Orthopaedic Surgeons Course” Techniques in Current Fracture Care” and Lab Instructor Dec 5-7 2003

Emory University Grand Rounds “Blast and Ballistic Injuries” Emory University Department of Orthopaedic Surgery Dec 2 2003

Keynote Speaker Australian Orthopaedic Registrar’s Association Annual Scientific Meeting 1.The Use of Biologics in the Treatment of Trauma patients. 2Treatment Options for delayed and Nonunions in long bone fractures. 3. Developments in IM nailing Blue Mountains Australia Nov 20-22, 2003

Co-Director of Synthes AO–Operating Room Personnel (ORP) course. Emory University Atlanta Ga Oct 2003

Director Synthes AO course- Locked Plating Techniques, Emory University Atlanta GA Sept 2003

Atlanta Orthopaedic Society “New Technology and Techniques in Orthopaedic Trauma, Atlanta Ga Sept 2003

Director Extremity War Surgery Course-Course for 75 Army Reserve Physicians before deployment to Iraq. Lectures, sawbones and cadaver workshop. Aug 2003

Director Extremity War Surgery Course-Course for 75 Army Reserve Physicians before deployment to Iraq. Lectures, sawbones and cadaver workshop. Feb 2003

University of Miami Orthopaedic Grand Rounds December 2001
Military Specific Injuries and Research Update

Medicine, Technology & Human Factors in Trauma Care: A Civilian/Military Perspective
University of Maryland School of Medicine Baltimore, MD November 2001
Advances in Orthopaedic Surgery in the New Millennium

American Academy of Orthopaedic Surgeons, San Francisco, CA, March 2001.

R.A. Hayda, R.M. Harris, S.J. Mannion, L.V. Griffin, M.S. Rountree, T.G. Bice, “Fracture Patterns Associated with Landmine Injuries and Protective Footwear”

R.M. Harris, “In Vitro Fatigue Strength of Common Tibial Intramedullary Nail Distal Locking Screws”

Video Instructional Tape: R.M. Harris, R.A. Hayda, "Dual C-Arm Technique of Iliosacral Screw Placement"

UXO/Countermines Forum, New Orleans, LA, March 2001.

D.M. Bergeron, G.G. Coley, M.S. Rountree, I.B. Anderson, R.M. Harris, "Assessment of Foot Protection Against Anti-Personnel Landmine Blast Using a Frangible Surrogate Leg"

R.M. Harris, M.S. Rountree, R.A. Hayda, L.V. Griffin, S.J. Mannion, T.G. Bice, "The Efficacy of Current Landmine Protective Footwear: Change in Medical Outcomes"

L.V. Griffin, R.M. Harris, R.A. Hayda, M.S. Rountree, "A Model of Lower Extremity Morbidity Subjected to Antipersonnel Landmine Blasts"

R.A. Hayda, R.M. Harris, S.J. Mannion, L.V. Griffin, M.S. Rountree, T.G. Bice, "Fracture Patterns Associated with Landmine Injuries and Protective Footwear"

Society of Military Orthopaedic Surgeons, Forty-Second Annual Meeting, San Antonio, TX, December 2000

Moderator for Trauma Session

R.M. Harris, Griffin L, Hayda R, Rountree M, Rossiter, N, Mannion, S., "Change in Lower Extremity Morbidity from Landmine Injury: An Analysis of New Protective Footwear"

M.S. Rountree; R.M. Harris, L.V. Griffin, R.A. Hayda, S.J. Mannion, J.V. Blom, T.G. Bice; E. Sanderson, "Antimine Footwear, Evaluation of Current Protective Strategies"

L.V. Griffin PhD, R.M. Harris MD, R.A. Hayda MD, M.S. Rountree, A Predictive Model of Lower Extremity Morbidity Subjected to Antipersonnel Landmine Blasts.

R.A. Hayda, R.M. Harris, S.J. Mannion, L.V. Griffin, M.S. Rountree; T.G. Bice, "Fracture Patterns Associated with Landmine Injuries and Protective Footwear"

71st Shock and Vibration Symposium, Alexandria, VA, November 2000

M.S. Rountree, R.M. Harris, L.V. Griffin, T.G. Bice, S.J. Mannion, "The Effects of Antipersonnel Blast Mines on the Lower Extremity; Lower Extremity Assessment Program"

Orthopaedic Trauma Association Annual Meeting, San Antonio TX, October 2000

LTC Robert Harris, M.D., M.S. Rountree, L.V. Griffin, T. G. Bice, S.J. Mannion, "The Effects of Antipersonnel Blast Mines on the Lower Extremity"

ATACCC, Fort Walton Beach, FL, September 2000

R.M. Harris, M.S. Rountree, L V. Griffin, T.G. Bice, S.J. Mannion, "The Effects of Antipersonnel Blast Mines on the Lower Extremity"

Sixth Annual Trauma Symposium: Orthopaedic Course Chairman, San Antonio TX, August 2000

Management of the Burn and Orthopaedic Trauma Patient Seminar, San Antonio, TX, May 2000

R.M. Harris, L.V. Griffin, R.A. Hayda, M.S. Rountree, N. Rossiter, S.J. Mannion,
“Change in Lower Extremity Morbidity from Landmine Injury: An Analysis of New
Protective Footwear”

American Academy of Orthopaedic Surgeons Annual Meeting, Orlando, FL, March 2000

R.M. Harris, J. Early, J. Stannard, D. Volgas, S. Rose, “Intermittent Plantar Compression
to Reduce Preoperative Swelling in Calcaneous Fractures”

NATO Exploratory Team, Brussels, Belgium, February 2000

“The Effects of Antipersonnel Blast Mines on the Lower Extremity”

First Annual Naval Trauma Symposium Naval Medical Center, San Diego, CA,
November 1999

R.M. Harris - Blast injuries

R.M. Harris - Landmine Injuries

R.M. Harris - Pelvic Fractures

Orthopaedic Trauma Association Annual Meeting, Charlotte, NC, October 1999

R.M. Harris, L.V. Griffin, R.A. Hayda, M.S. Rountree, N. Rossiter, S.J. Mannion,
“Change in Lower Extremity Morbidity from Landmine Injury: An Analysis of New
Protective Footwear”

R.M. Harris, J. Zubak, L.V. Griffin, R.A. Hayda, “In-Vitro Material Strength Properties of
Tibial Intramedullary Nail Distal Locking Screws”

R.M. Harris, J. Morgan, K. Shirani, C. Goodwin, “Effects of Voltage Causing
Compartment Syndromes in Electrical Injuries”

Orthopaedic Basic Trauma Course, University of Texas Medical Branch, Galveston, TX,
October 1999

1. R.M. Harris - Pelvic Fractures.
2. R.M. Harris - Compartment Syndrome of the Extremities.

Society of Military Orthopaedic Surgeons Forty-first Annual Meeting, Williamsburg VA,
October 1999

1. R.M. Harris, L.V. Griffin, R.A. Hayda, M.S. Rountree, N. Rossiter, S.J. Mannion,
“Change in Lower Extremity Morbidity from Landmine Injury: An Analysis of New
Protective Footwear”
2. R.M. Harris, J. Zubak, L.V. Griffin, R.A. Hayda, “In-Vitro Material Strength Properties
of Tibial Intramedullary Nail Distal Locking Screws”

3. R.M. Harris, C. Reinert, A. Jones, R. Bucholz, "Intraoperative Problems Associated with Total Hip Arthroplasty Following Previous ORIF of Acetabular Fractures"
4. S. Rose, R.A. Hayda, M. Bagg, R.M. Harris, "A Comparison of Triceps-Sparing Versus Transolecranon Approach of the Distal Humerus: An Anatomic Study of Articular Surface Exposure"
5. R.M. Harris, J. Zubak, L.V. Griffin, R.A. Hayda, "In-Vitro Material Strength Properties of Tibial Intramedullary Nail Distal Locking Screws"
6. R.M. Harris, P. Chang, R.A. Hayda, L.V. Griffin, R. Sheldon, "Biomechanical Characteristics of Self-Drilling External Fixator Pins"
7. R.M. Harris, J. Zubak, L.V. Griffin, R.A. Hayda, M. Sabado, "A Biomechanical Comparison of Two Femoral Neck Fracture Fixation Constructs"

Fifth Annual Trauma Symposium: Orthopaedic Course Chairman, San Antonio TX, August 1999

Poster Presentations:

1. "Morbidity of Two-Incision Fasciotomy for Compartment Syndromes of the Lower Extremity"
2. "The Incidence of Orthopaedic Injuries in Professional Rodeo Cowboys and a Breakdown of Occurrence by Event"
3. "Bridging External Fixation for Management of Comminuted Acetabular Fractures Due to Gun Shot Wounds to the Hip: Two Case Reports"
4. "Change in the Mortality Associated with Injuries Sustained by Aircraft Accident Burn Survivors"
5. "Intermittent Plantar Compression to Reduce Pre-operative Swelling in Calcaneus Fractures"
6. "A Biomechanical Comparison of Two Femoral Neck Fracture Fixation Constructs"
7. "Incidence of Pulmonary Complications in Burn Patients with Femur Fractures"
8. "Intraoperative Problems Associated with Total Hip Arthroplasty Following Previous ORIF of Acetabular Fractures"
9. "In-Vitro Material Strength Properties of Tibial Intramedullary Nail Distal Locking Screws"
10. "Orthopaedic Trauma Team: Excellence in Care with Time Saving Efficiency"
11. "Change in Lower Extremity Morbidity from Landmine Injury: An Analysis of New Protective Footwear"

12. "Anabolic Steroids after Laceration Injury of Muscle"
13. "Biomechanical Characteristics of Self-Drilling External Fixator Pins"
14. "Use of Small Wires through Cannulated Screws for Periarticular Fractures Around the Knee"

University of Virginia, Department of Orthopaedic Surgery Grand Rounds,
Charlottesville, VA, 20 February 1999

"Orthopaedic Options in the Polytrauma Patient"

Society of Military Orthopaedic Surgeons 40th Annual Meeting, Vail, CO, December 1998

- "Morbidity of Two-Incision Fasciotomy for Compartment Syndromes of the Lower Extremity"
- "The Incidence of Orthopaedic Injuries in Professional Rodeo Cowboys and a Breakdown of Occurrence by Event"
- "Bridging External Fixation for Management of Comminuted Acetabular Fractures Due to Gun Shot Wounds to the Hip: A Case Report"
- "Change in the Mortality Associated with Injuries Sustained by Aircraft Accident Burn Survivors"
- "Intermittent Plantar Compression to Reduce Preoperative Swelling in Calcaneous Fractures"

Orthopaedic Trauma Association Annual Meeting, Vancouver, BC, October 1998

"Orthopaedic Trauma Team: Excellence in Care with Time Saving Efficiency"

Fourth Annual Trauma Symposium, San Antonio, TX, August 1998

1. Pelvic Ring Injuries
2. Chairman/Moderator of the Orthopaedic Sessions

American Academy of Orthopaedic Surgeons Annual Meeting New Orleans, LA, March 1998

Poster Presentation: "Orthopaedic Trauma Team: Excellence in Care with Time Saving Efficiency"

American Burn Association Annual Meeting, Chicago, IL, March 1998

1. Pulmonary complications in burn patients with femur fractures
2. Change in morbidity in Aircraft Crash Survivors

U.S. Army Institute of Surgical Extremity Trauma 50th Year Anniversary 1998, New
Technology in Orthopaedic Trauma, San Antonio, TX, March 1998

Extremity Trauma Update

Trauma Update: New Techniques in Trauma San Antonio, TX, January 1998

Co-Chairman - "Pelvic Ring Injuries"

American Academy of Orthopaedic Surgeons Annual Meeting, San Francisco, CA, February 1997

"Plantar Compression in Compartment Syndrome in a Baboon Model"

Southwestern School of Medicine, Department of Neurosurgery Grand Rounds, Dallas, TX, May 1997

"DVT Prophylaxis with Intermittent Plantar Foot Compression"

Third Annual Trauma Symposium, San Antonio, TX, August 1997

Chairman, Orthopaedic Sessions

Trauma Update - Civilian and Military Applications, University of Maryland, R. Crowley Shock Trauma Center, September 1997

"Open Fractures in Combat Environment"

Basic Fracture Course: University Of Texas at Galveston, TX, October 1997

1. "Femur fractures-
2. "Pelvic Ring Injuries Operative Management"

Trauma Update - New York, NY, November 1997

1. "External Fixation for Periarticular Fractures"
2. "Percutaneous Fixation of Pelvis and Acetabular Fractures"

Second Annual Trauma Symposium, San Antonio, TX, September 1996

1. "Pelvic Ring and Acetabular Fractures - Classification and Operative Indications"
2. Course moderator - 2nd day

Orthopaedic Trauma Association, Boston, MA, September 1996

"Plantar Compression in Compartment Syndrome in a Baboon Model"

DVT Symposium, Banff, Canada, February 1996

Course moderator

"Intermittent Plantar Compression for DVT Prevention After Hip Fractures"

Orthopaedic Trauma Association, Tampa, FL, 1995

“Mass Casualty Accident - Experiences and Lessons Learned - Pope Air Force Base Accident”

“Compartment Syndrome in a Baboon Model Treatment With a Foot Pump”- Poster

Society of Military Orthopaedic Surgeons, Hilton Head, SC, November 1994

“Mass Casualty Accident - Experiences and Lessons Learned - Pope Air Force Base Accident”

“Use of a Nuclear Medicine Radiolucent Table for the Placement of Iliosacral Screws in Pelvic Ring Fractures”

Poster Presentation: “Early Experience of a New Bone-Hamstring-Bone ACL Reconstruction Technique”

American Academy of Orthopaedic Surgeons, New Orleans, LA, February 1994

“DVT Prophylaxis Following Hip Fractures: A New Therapeutic Approach”

Poster Presentation: “Treatment of Metastatic Femur Fractures with a Reconstruction-Bipolar Nail”

Poster Presentation: “Intermittent Compression as a Treatment During Compartment Syndrome - An Animal Model”

Symposium on DVT Prophylaxis, Snowbird, UT, February 1994

1. “Intermittent Plantar Compression as a Treatment for Swelling Associated with Lower Extremity External Fixation”.
2. Moderator - Third Day Scientific Session

Orthopaedic Trauma Association, New Orleans, LA, September 1993

1. “Intermittent Plantar Compression as a Treatment for Lower Extremity Swelling Associated with Lower Extremity External Fixation”
2. “DVT Prophylaxis Following Hip Fractures: A New Therapeutic Approach”

Texas Orthopaedic Association, 1993 Annual Meeting, Houston, TX

1. “Use of Intermittent Plantar Compression as a Treatment for Swelling Associated with Lower Extremity Trauma”. First Place Resident Paper Award
2. “Use of a Reconstruction-Bipolar Nail for the Treatment of Proximal Femoral Pathology”

San Antonio Orthopaedic Society, Roy Davis Resident Competition, April 1993.

“Use of Intermittent Plantar Compression for DVT Prevention Following Total Joint Arthroplasty”. First Place Award

AOA Residents Meeting, Seattle, WA, 1993

1. "Use of a Foot Plantar Compression Device as an Innovative Treatment of Swelling and Compartment Syndromes Associated with Lower Extremity Trauma"
2. "Pressure Absorption at the Foot/Shoe Interface During Rapid Vertical Descents.

American Academy of Orthopaedic Surgeons, San Francisco, CA, 1993

"Use of Intermittent Plantar Compression as a Treatment of Swelling Associated with Lower Extremity Trauma"

"Intermittent Compression of the Plantar Venous Plexus Following Total Joint Arthroplasty"

Poster Presentation: "Pressure Absorption at the Foot/Shoe Interface during Rapid Vertical Descents"

Society of Military Orthopaedic Surgeons, Colorado Springs, CO, November 1992

"The Use of Intermittent Plantar Compression for DVT Prevention following Total Joint Arthroplasty"

"Intermittent Plantar Compression as a Treatment for Swelling Associated with Lower Extremity Ex-Fixation"

Ninth Combined Meeting of the English Speaking AOA Meeting, Toronto, Canada, June 1992

"The Use of Intermittent Plantar Compression as DVT Prevention Following Total Joint Arthroplasty". One of 12 American papers selected.

Children's Day, Children's Hospital, Denver, CO. May 1992

"Hip Spica Casts and the Effect on Pulmonary Function Tests"

Fourth Annual Colorado Trauma Conference, Denver, CO May 1992

"Prevalence of HIV in Trauma Patients In San Antonio, Texas"

Society of Military Orthopaedic Surgeons, El Paso, TX, November 1991

1. "Threaded Acetabular Cups in Total Joint Arthroplasty - A Two Year Follow Up"
2. "Military Parachute Injuries - Pressure Absorption at the Sole-Foot Interface"
Winner of the Kirkland Award.

SUMMARY OF RESEARCH AREAS:

Military parachute injuries; ankle fractures

Compartment syndromes in baboon animal models

Use of a foot pump to reduce elevated compartment pressures

Calcaneous fractures and swelling reduction with a foot pump

Acetabular fracture modeling utilizing sterolithography
Percutaneous screw fixation of acetabular and pelvic ring fractures
Problems encountered with total joint arthroplasty after previous acetabular operative fixation
External fixation followed by exchange nail in severe open tibia fractures
The effect of sphingomyelin on chondrocytes and osteoblasts
In-vitro biomechanical analysis of a reduced, unstable, pelvic ring disruption using pelvic stabilization devices
Landmine injuries, Brava (blast resuscitation and victim assistance) humanitarian assistance to landmine victims
Blast and ballistic trauma to the head, torso and extremities
Effects of behind body armor effects, the effects of personal protective equipment in landmine clearing
Use of recombinant factor vii in decreasing blood loss in acetabular fracture surgery
Testing and evaluation of a DoD advanced bomb suit
Injury potential of temporary shelters when subjected to blast loading
Study of head injury during non-penetrating ballistic loading of helmets
The effects of antipersonnel mines on the human body, and the Protective Capabilities of Anti-mine Personnel Protective Equipment
Biomechanical Comparison of Two Femoral Necks, Fracture Fixation, Constructs
Biomechanical Characteristics of Self-Drilling, External, Fixator Pins
Development and Assessment of a Biofidelic Frangible Surrogate Leg
Study of Glass Fragment Injury Caused by Explosive Events
Alarm Sensitivity Comparison of Two Commercial Pumps Used For Pneumatic Compression of the Lower Extremity in the Functional Management of Orthopaedic Injuries
The Effect of High Velocity Missile Shockwaves on Bone

MILITARY:

Orthopaedic Trauma and Research Director
US Army Trauma Training Center
Ryder Trauma Center
University of Miami Oct 01 to Nov 02

Trauma Surgical Consultant to the Research Area Director Combat Casualty Care, U.S. Army Medical Research and Materiel Command, Fort Detrick, MD, September 2000 to 2001

Chief of Extremity Trauma Study Branch, U.S. Army Institute of Surgical Research, Fort Sam Houston, TX, August 1996 to September 2000

Staff Orthopaedic Surgeon, Womack Army Medical Center, Fort Bragg, NC, July 1993 to July 1995

Joint Special Operations Command, September 1993 to July 1995
Somalia, October 1993
Haiti, September -October 1994

Orthopaedic Surgery Research, Brooke Army Medical Center, July 1989 to 1993

Brigade Surgeon, 1st Brigade, 2nd Armored Division, Fort Hood, TX, July 1988 to June 1989

Task Force Surgeon, National Training Center, Fort Irwin, CA, October 1988

Transitional Internship, Brooke Army Medical Center, July 1987 to June 1988

Combat Casualty Care Course, October 1987

AMEDD Officer Basic Course, Fort Belvoir, VA, July to August 1984

Cadet, United States Military Academy, West Point, NY, July 1979 to May 1983

Airborne Course, July 1982, Honor Graduate

AWARDS AND DECORATIONS:

- Meritorious Service Medal
- Army Commendation Medal – Three Awards
- Joint Service Commendation Medal
- Army Service Medal
- National Defense Ribbon
- Armed Forces Expeditionary Medal
- Joint Expeditionary Medal - Somalia 1993; Haiti 1994
- Joint Service Achievement Medal - Somalia 1993
- Army Achievement Medal
- Army Parachutist Badge
- Australian Parachutist Badge
- Expert Field Medical Badge
- Phi Beta Kappa, 1979
- Chemistry Awards, 1979-82