

Curriculum Vitae
WALTER LANIER BIFFL, MD, FACS

CURRENT POSITION

Acute Care Surgeon; Associate Director of Surgery, Assistant Director of Patient Safety and Quality, Director of Surgical Quality, Director of Trauma/Surgical Outreach, Denver Health Medical Center; Trauma Medical Director, Boulder Community Hospital, Boulder, Colorado; Professor, Department of Surgery, University of Colorado School of Medicine, Denver, Colorado

PROFESSIONAL ADDRESS

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EDUCATION

Undergraduate: Duke University - Durham, NC
1980 - 1984
Degree: B.S. Psychology 1984, *Cum Laude*

Medical: George Washington University School of Medicine - Washington, D.C.
1986 - 1990
Degree: M.D. 1990

Internship/Residency: Department of Surgery
University of Colorado Health Sciences Center - Denver, CO
1990 - 1997
Chairman: Alden H. Harken, M.D.

Fellowship: National Institutes of Health Sponsored Trauma Research Fellowship
Denver General Hospital/University of Colorado Health Sciences Center
1993 - 1995
Research Supervisor: Ernest E. Moore, M.D.

ACADEMIC APPOINTMENTS

Professor, Department of Surgery, University of Colorado School of Medicine, Denver, CO
July 2010 – Present

Associate Professor, Department of Surgery, University of Colorado School of Medicine, Denver, CO
July 2008 – July 2010

Visiting Associate Professor, Department of Surgery, University of Colorado School of Medicine, Denver, CO
March 2007 – July 2008

Associate Professor, Department of Surgery, Brown Medical School, Providence, RI
February 2002 - March 2007

Assistant Professor, Department of Surgery, University of Colorado Health Sciences Center, Denver, CO
July 1997 - January 2002

PRIMARY HOSPITAL APPOINTMENTS

Trauma Medical Director
Boulder Community Hospital, Boulder, CO
May 2013 – Present

Associate Director of Surgery; Assistant Director of Patient Safety and Quality; Director of Trauma/Surgical Outreach
Denver Health Medical Center, Denver, CO
March 2012 - Present

Acute Care Surgeon; Assistant Director of Patient Safety and Quality; Director of Trauma/Surgical Outreach
Denver Health Medical Center, Denver, CO
March 2007 – March 2012

Chief, Division of Trauma and Surgical Critical Care; Director, Fellowship in Surgical Critical Care
Rhode Island Hospital, Providence, RI
February 2002 – March 2007

General and Trauma Surgeon; Chief of Pediatric Trauma
Denver Health Medical Center, Denver, CO
July 1997 - January 2002

POSTGRADUATE HONORS & AWARDS

- President, Medical School Class Council, George Washington University, 1986-87
- Department of Radiology Award, George Washington University School of Medicine, 1990
- Kane-King-Dodek Obstetrical Honor Society, George Washington University School of Medicine, 1990
- Outstanding Intern Award Co-Recipient, Department of Surgery, University of Colorado Health Sciences Center, 1990-91
- American College of Surgeons Committee on Trauma Residents Paper Competition, Best Clinical Paper, Region VIII, 1994
- Jack A. Barney Award- Outstanding Resident Manuscript, Southwestern Surgical Congress, 1994
- LeRoy H. Stahlgren Abstract Competition, First Place, Colorado Chapter of the American College of Surgeons, 1994
- Ben Eiseman Surgical Resident Research Award- Outstanding Basic Research Paper, Department of Surgery, University of Colorado Health Sciences Center, 1993-94

- Ben Eiseman Surgical Resident Research Award- Outstanding Clinical Research Paper, Department of Surgery, University of Colorado Health Sciences Center, 1993-94
- American College of Surgeons Committee on Trauma Residents Paper Competition, Best Clinical Paper, Region VIII, 1995
- Surgical Infection Society Resident Paper Competition, Third Place, 1995
- LeRoy H. Stahlgren Abstract Competition, Third Place, Colorado Chapter of the American College of Surgeons, 1995
- Ben Eiseman Surgical Resident Research Award- Outstanding Basic Research Paper, Department of Surgery, University of Colorado Health Sciences Center, 1994-95
- The Society of University Surgeons Foundation Junior Faculty Fellowship Award, 1998-99
- The Society of University Surgeons Foundation Junior Faculty Fellowship Award, 1999-00
- Denver Health Medical Center Trauma Care Appreciation Award, 2000-01
- Brown University, Master of Arts *ad eundem*, 2003
- National Blood Foundation Scholar, 2003
- National Association of Public Hospitals and Health Systems 2008 Medical Leadership Program
- Denver Health & Hospital Authority 2009 Poster Competition, Rapid Improvement Events Category, First Place, 2009
- Denver Health Team Award- VTE Prophylaxis, 2011
- National Association of Public Hospitals Safety Net Award- Using Lean to Improve VTE Prophylaxis and Reduce Thrombosis, 2011
- Denver Health Team Award- Joint Commission Readiness, 2011

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- American Association for the Advancement of Science, 2003-Present
- American Association for the Surgery of Trauma, 2000-Present
 - Multicenter Trials Committee, 2004-2007
 - Canizaro Award Committee, 2005-2006
 - Publications & Communication Committee, 2012-2015
 - Geriatric Trauma Committee, 2012-2015
- American College of Surgeons, Fellow, 2000-Present
 - Rhode Island Chapter Committee on Applicants, 2004-2007
- American College of Surgeons Committee on Trauma
 - Rhode Island State Chair, 2003-2007
 - Publications Subcommittee, 2003-2007
 - Trauma Systems Consultation Subcommittee, 2003-2007, 2010-Present
 - Colorado State Vice-Chair, 2007-2012
 - Region 8 Chief, 2012-Present
- American Trauma Society, 2002-2008
- Association for Academic Surgery, 1998-Present
 - Brown Medical School Institutional Representative, 2005-2007
- Denver Academy of Surgery, 1998-2002, 2007-Present
 - Executive Council, 2008-Present:
 - Councilor, 2008-Present
- Eastern Association for the Surgery of Trauma, 2004-Present
 - Publications Committee, 2004-2007
 - Scholarship Committee, 2007-2010
 - Nominations Committee, 2010

- European Society for Trauma and Emergency Surgery, 2008-Present
- International Association for Trauma Surgery and Intensive Care, 2011-Present
- International Society of Surgery/Societe Internationale de Chirurgie, 2011-Present
- New England Surgical Society, 2005-2008
- Providence Surgical Society, 2003-2007
- Rhode Island Medical Society, 2002-2007
- Shock Society, 1997-Present
 - Rules Committee, 2004-2007
- Society of Critical Care Medicine, 1995-Present
 - Post Congress Conference on Glycemic Control Subcommittee, 2008-2010
- Society of Leukocyte Biology, 1998-Present
- Society of University Surgeons, 2000-Present
 - Committee on Social and Legislative Issues, 2003-2005
 - Brown Medical School Institutional Representative, 2006-2007
 - Scholarship Committee, 2010-2011
 - Executive Council, 2005-2011:
 - Chair, Committee on Social and Legislative Issues, 2005-2008
 - Councilor-at-Large, 2008-2011
- Southwestern Surgical Congress, 1998-Present
 - Publications and Research Committee, 1998-2002
 - Patient Care Strategic Planning Committee, 1999-2001
 - Chair, Graduate Medical Education Committee, 2001-2004
 - Program Committee, 2001-2006, 2010-Present
 - Chair, Program Committee, 2003-2004, 2011-2012
 - Strategic Planning Committee, 2005-2006
- Surgical Infection Society, 1998-Present
 - Scientific Studies Committee, 1999-2002
 - Executive Council, 2003-2006:
 - Chair, Membership Committee, 2003-2006
- Western Surgical Association, 2009-Present
- Western Trauma Association, 2002-Present
 - Multicenter Trials Committee, 2002-Present
 - Publications Committee, 2007-Present
 - Board of Directors, 2009-2012
 - Chair, Algorithms Committee, 2011-2014
- World Society of Emergency Surgery, 2008-Present
 - Board of Directors, 2009-Present

MAJOR COMMITTEE AND SERVICE RESPONSIBILITIES

Departmental Committees

- Brown Medical School Department of Surgery Grand Rounds Curriculum Committee, 2002-2007
- University of Colorado Department of Surgery Seed Grant Funding Committee, 2007-Present
- University of Colorado Department of Surgery Surgical Grand Rounds Planning and Needs Assessment Committee, 2010-Present

Hospital Committees

- Chair, Institutional Animal Care and Use Committee, Denver Health Medical Center, 1997-2002
- Chair, Pediatric Trauma Committee, Denver Health Medical Center, 1997-2002
- Denver Health Trauma Institute/Education Center Capital Bond Program, 1999-2000
- Risk Management Committee, Denver Health Medical Center, 2000-2002
- Chair, Trauma Committee, Rhode Island Hospital, 2002-2007
- Patient Safety Committee, Rhode Island Hospital, 2002-2007
- Risk Management/Claims Committee, Rhode Island Hospital, 2003-2007
- Operating Room/Surgical Clinical Practice Committee, Rhode Island Hospital, 2003-2007
- Co-Chair, Organ Donation Advisory Committee, Rhode Island Hospital, 2004-2007
- Medical Co-Director, ICU Collaborative Steering Committee, Rhode Island Hospital, 2005-2007
- Executive Committee for Patient Safety and Quality, Denver Health Medical Center, 2007-Present
- Infection Control and Prevention Committee, Denver Health Medical Center, 2007-Present
- Antibiotic Subcommittee, Denver Health Medical Center, 2007-Present
- Director, Surgery/Trauma Outreach, Denver Health Medical Center, 2007-Present
- Chair, Trauma Performance Improvement Committee, Denver Health Medical Center, 2007-Present
- Organ Donation Physician Champion, Denver Health Medical Center, 2008-Present
- Chair, Clinical Practice Committee, Denver Health Medical Center, 2008-Present
- Conflict Resolution Committee, Denver Health Medical Center, 2011-Present
- Surgery Clinic Committee, 2011-2012
- Chair, Trauma Committee, Boulder Community Hospital, 2013-Present
- Co-Chair, Surgical and Trauma Services Committee, Boulder Community Hospital, 2013-Present
- Medical Executive Committee, Boulder Community Hospital, 2013-Present
- Patient Safety Council, Boulder Community Hospital, 2013-Present

University School of Medicine Committees

- Colorado Multiple Institutional Review Board, 1997-2002
- Brown Medical School Search Committee, Director of Orthopedic Trauma, 2004
- Brown Medical School Search Committee, Pediatric Surgeon, 2004
- Local Organizing Committee, 10th International Symposium on Blood Substitutes, Brown Medical School, June 2005
- Brown Medical School Search Committee, Chair of Emergency Medicine, 2005
- Brown Medical School Search Committee, Critical Care Research Attending, 2006
- Chair, Brown Medical School Search Committee, Trauma/Critical Care Attending, 2006

State and National Committee and Service Appointments

- Medical Director, Rhode Island Trauma System Advisory Committee, 2003-2007
- Chair, Steering Committee, Rhode Island Trauma System Advisory Committee, 2004-2007
- Gubernatorial Appointment to State of Colorado Emergency Medical and Trauma Services Advisory Council (SEMTAC), 2009-2011; Reappointed 2011-2014
- National Quality Forum Subcontract Selection Panel, 2009
- SEMTAC ACS Report Review Task Force, 2009-Present
- National Quality Forum Measure Prioritization Advisory Committee, 2009-2011
- Vice-Chair, Colorado SEMTAC State Trauma Advisory Committee, 2010-2012
- Vice-Chair, Colorado SEMTAC, 2011-Present
- Colorado SEMTAC Trauma Chapter 2 Task Force, 2011-Present

- Chair, Colorado SEMTAC State Trauma Advisory Committee, 2012-Present

PROFESSIONAL LICENSURE AND BOARD CERTIFICATION

Board Certification: American Board of Surgery, 1998; Recertification 2007

Medical Licensing: Colorado Board of Medical Examiners, 1997-2003; 2007-Present
Rhode Island Department of Health, 2002-2008

REVIEW AND REFEREE WORK

- Editorial Board, *The Journal of The American College of Surgeons*, 2010-Present
- Editorial Board, *The Journal of Trauma: Injury, Infection, and Critical Care*, 2009-Present
- Editorial Board, *The Open Critical Care Medicine Journal*, 2008-Present
- Editorial Board, *World Journal of Emergency Surgery*, 2006-Present
- Editorial Board, *World Journal of Radiology*, 2009-Present
- National Heart, Lung, and Blood Institute Special Emphasis Panel RFA HL-03-015: Hypovolemic circulatory collapse: Mechanisms and opportunities to improve resuscitation outcomes. October 2003
- Ad-hoc Reviewer for *American Journal of Neuroradiology*
- Ad-hoc Reviewer for *The American Journal of Physiology*
- Ad-hoc Reviewer for *The American Journal of Surgery*
- Ad-hoc Reviewer for *Annals of Surgery*
- Ad-hoc Reviewer for *Archives of Surgery*
- Ad-hoc Reviewer for *British Journal of Surgery*
- Ad-hoc Reviewer for *Canadian Medical Association Journal*
- Ad-hoc Reviewer for *Critical Care Medicine*
- Ad-hoc Reviewer for *Journal of The American Medical Association (JAMA)*
- Ad-hoc Reviewer for *Journal of Emergencies, Trauma, and Shock*
- Ad-hoc Reviewer for *Journal of Injury and Violence Research*
- Ad-hoc Reviewer for *The Journal of Leukocyte Biology*
- Ad-hoc Reviewer for *Journal of Neurology*
- Ad-hoc Reviewer for *Patient Safety in Surgery*
- Ad-hoc Reviewer for *Respiratory Care*
- Ad-hoc Reviewer for *Saudi Journal of Gastroenterology*
- Ad-hoc Reviewer for *Shock*
- Ad-hoc Reviewer for *Surgery*
- Ad-hoc Reviewer for *World Journal of Surgery*

INVITED LECTURES AND PRESENTATIONS

Local/Intramural

1. Health care should not be rationed. Presented at Department of Surgery Grand Rounds, University of Colorado Health Sciences Center, Denver, CO, September 1991.
2. Nosocomial infections in the surgical intensive care unit. Presented at Denver General Hospital/ University of Colorado Surgical Critical Care Conference, Denver, CO, February 1992.

3. Selective gut decontamination is overrated. Presented at Department of Surgery Grand Rounds, University of Colorado Health Sciences Center, Denver, CO, August 1992.
4. Bacterial translocation is irrelevant. Presented at Department of Surgery Grand Rounds, University of Colorado Health Sciences Center, Denver, CO, February 1993.
5. Prophylaxis against deep venous thrombosis is overrated. Presented at Department of Surgery Grand Rounds, University of Colorado Health Sciences Center, Denver, CO, September 1993.
6. Multiple organ failure is preventable. Presented at Department of Surgery Grand Rounds, University of Colorado Health Sciences Center, Denver, CO, April 1994.
7. Nitric oxide is the best therapy for the acute respiratory distress syndrome. Presented at Department of Surgery Grand Rounds, University of Colorado Health Sciences Center, Denver, CO, December 1994.
8. Multiple organ failure is preventable. Presented at Department of Surgery Grand Rounds, University of Colorado Health Sciences Center, Denver, CO, February 1995.
9. Ligation: The sensible approach to venous injuries. Presented at Department of Surgery Grand Rounds, University of Colorado Health Sciences Center, Denver, CO, October 1995.
10. Amputation: The preferred approach to the ischemic foot. Presented at Department of Surgery Grand Rounds, University of Colorado Health Sciences Center, Denver, CO, May 1996.
11. Adjuvant therapy for esophageal cancer is overrated. Presented at Department of Surgery Grand Rounds, University of Colorado Health Sciences Center, Denver, CO, November 1996.
12. Acute management of unstable pelvic fractures in the multiply injured patient. Panel discussion presented at Denver Health Medical Center Multidisciplinary Trauma Teleconference, Denver, CO, January 1998.
13. Management of the multisystem injured patient with carotid artery dissection. Presented at Denver Health Medical Center Multidisciplinary Trauma Teleconference, Denver, CO, March 1998.
14. Apoptosis: Does death promote life? Presented at Department of Surgery Grand Rounds, University of Colorado Health Sciences Center, Denver, CO, April 1998.
15. Evaluation of blunt abdominal trauma in the child. Presented at Denver Health Medical Center Multidisciplinary Trauma Teleconference, Denver, CO, April 1998.
16. Acute management of unstable pelvic fractures in the multiply injured patient. Panel discussion presented at Denver Health Medical Center Multidisciplinary Trauma Teleconference, Denver, CO, May 1998.
17. Blunt cardiac trauma. Presented at Denver Health Medical Center Multidisciplinary Trauma Teleconference, Denver, CO, October 1998.
18. New ideas in post-traumatic inflammation. Presented at University of Colorado Senior Medical Student Seminar, Denver, CO, April 1999.

19. Coagulopathies in critically injured adult and pediatric patients. Presented at Denver Health Medical Center Multidisciplinary Trauma Teleconference, Denver, CO, April 1999.
20. Blunt cerebrovascular injuries. Presented at Department of Surgery Grand Rounds, University of Colorado Health Sciences Center, Denver, CO, May 1999.
21. Acute management of patients with multiple trauma. Presented at University of Colorado Physical Medicine and Rehabilitation Residents' Trauma Rehabilitation Lecture Series, Denver, CO, December 1999.
22. Blunt cerebrovascular injuries in pediatric and adult patients. Presented at Denver Health Medical Center Multidisciplinary Trauma Teleconference, Denver, CO, March 2000.
23. Neutrophil priming and apoptosis, blood transfusion, and multiple organ failure. Presented at Department of Surgery Grand Rounds, University of Colorado Health Sciences Center, Denver, CO, April 2000.
24. Neutrophil priming and apoptosis, blood transfusion, and multiple organ failure. Presented at University of Colorado Senior Medical Student Seminar, Denver, CO, April 2000.
25. Blunt vertebral arterial injuries. Presented at Denver Health Medical Center Trauma Care Appreciation Day Teleconference, Denver, CO, May 2000.
26. Initial evaluation of injured adult and pediatric patients. Presented at Denver Health Medical Center Multidisciplinary Trauma Teleconference, Denver, CO, July 2000.
27. Blunt abdominal trauma in adult and pediatric patients: A clinical pathway approach. Presented at Denver Health Medical Center Multidisciplinary Trauma Teleconference, Denver, CO, February 2001.
28. A multidisciplinary clinical pathway for unstable patients with pelvic fractures. Presented at Denver Health Medical Center Trauma Care Appreciation Day Teleconference, Denver, CO, April 2001.
29. Pre-existing conditions in trauma patients. Presented at Denver Health Medical Center Multidisciplinary Trauma Teleconference, Denver, CO, June 2001.
30. Initial evaluation of the injured patient. Presented at Department of Surgery Grand Rounds, University of Colorado Health Sciences Center, Denver, CO, August 2001.
31. Trauma, blood transfusions, and multiple organ failure. Presented at Department of Surgery Grand Rounds, Rhode Island Hospital/Brown Medical School, Providence, RI, September 2002.
32. The role of torso ultrasound in trauma. Presented at Department of Radiology Conference, Rhode Island Hospital/Brown Medical School, Providence, RI, January 2003.
33. Multidisciplinary management of pelvic fractures. Presented at Orthopedic Grand Rounds, Rhode Island Hospital/Brown Medical School, Providence, RI, March 2003.
34. Trauma, blood transfusions, and multiple organ failure. Presented at Brown Medical School Pulmonary Research Conference, Providence, RI, November 2003.

35. Blunt cerebrovascular injuries. Presented at Department of Surgery Grand Rounds, Rhode Island Hospital/Brown Medical School, Providence, RI, January 2004.
36. Abdominal trauma. Presented at Department of Urology Grand Rounds, Rhode Island Hospital/Brown Medical School, Providence, RI, February 2004.
37. Management of splenic trauma and diagnosis of blunt cerebrovascular injuries. Presented at Brown Medical School Department of Radiology Conference, Providence, RI, September 2004.
38. The immune and inflammatory consequences of pain and pain management. Presented at Department of Surgery Grand Rounds, Rhode Island Hospital/Brown Medical School, Providence, RI, February 2005.
39. Cardiac trauma. Presented at Cardiology Fellows Conference, Rhode Island Hospital/Brown Medical School, Providence, RI, March 2005.
40. New concepts in the prevention of surgical site infections. Brown Medical School Surgical Resident Roundtable. Providence, RI, December 2005.
41. Cardiac trauma. Presented at Cardiology Fellows Conference, Rhode Island Hospital/Brown Medical School, Providence, RI, May 2006.
42. Trauma: The “Top Ten” List. Presented at the 16th Annual Peter D. Smith Memorial Trauma Seminar, Rhode Island Hospital, Providence, RI, May 2006.
43. Current concepts in the prevention of surgical site infections. Presented at Department of Surgery Grand Rounds, Rhode Island Hospital/Brown Medical School, Providence, RI, May 2006.
44. Multidisciplinary management of unstable pelvic fractures. Presented at Brown Medical School Department of Emergency Medicine Trauma Conference, Providence, RI, May 2006.
45. Cardiac trauma. Presented at Brown Medical School Department of Emergency Medicine Trauma Conference, Providence, RI, May 2006.
46. Cardiac trauma. Presented at Brown Medical School Trauma Service Conference, Providence, RI, September 2006.
47. Trauma in the elderly. Presented at Department of Surgery Grand Rounds, Rhode Island Hospital/Brown Medical School, Providence, RI, November 2006.
48. The effects of activated protein C on neutrophils: Migration and integrins. Presented at Brown Medical School Pulmonary Research Conference, Rhode Island Hospital/Brown Medical School, Providence, RI, January 2007.
49. Current concepts in the prevention of surgical site infections. Presented at Department of Surgery Grand Rounds, University of Colorado Denver School of Medicine, Aurora, CO, September 2007.
50. Current concepts in the prevention of surgical site infections. Presented at Department of Surgery Grand Rounds, University of Colorado Denver School of Medicine, Aurora, CO, October 2008.

51. Transfusion practices in trauma and critical care. Presented at Denver Health Trauma/Critical Care Outreach Education Conference, Denver, CO, July 2009.
52. Prevention of surgical infections. Presented at Department of Surgery Grand Rounds, University of Colorado Denver School of Medicine, Aurora, CO, August 2009.
53. Endpoints of resuscitation. Presented at Denver Health Medical Center 2009 Critical Care Conference, Denver, CO, October 2009.
54. Prevention of surgical site infections. Presented at Department of Surgery Grand Rounds, University of Colorado School of Medicine, Aurora, CO, August 2010.
55. Current concepts in blood transfusion in trauma and critical care. Presented at Denver Health Medical Center 2nd Annual Improving Outcomes/Saving Lives Critical Care Conference, Denver, CO, October 2010.
56. Trauma in the elderly. Presented at Denver Health Trauma/Critical Care Outreach Education Conference, Denver, CO, November 2010.
57. Current concepts in the prevention of surgical site infections. Presented at Department of Surgery Grand Rounds, University of Colorado School of Medicine, Aurora, CO, October 2011.
58. Hemostasis-directed resuscitation. Presented at Denver Health Medical Center 3rd Annual Improving Outcomes/Saving Lives Critical Care Conference, Denver, CO, October 2011.
59. Medical disasters: Are we really prepared? An analysis of The Station Nightclub fire. Presented at Denver Health Medical Center 4th Annual Improving Outcomes/Saving Lives Critical Care Conference, Denver, CO, October 2012.
60. Current concepts in the prevention of surgical site infections. Presented at Department of Surgery Grand Rounds, University of Colorado-Denver School of Medicine, Aurora, CO, January 2013.

Regional

1. Traumatic carotid arterial injuries. Presented at Longmont United Hospital CME Program, Longmont, CO, June 1998.
2. Deep venous thrombosis prophylaxis in trauma. Presented at McKee Medical Center CME Program, Loveland, CO, June 1998.
3. Venovenous bypass as an adjunct in the repair of destructive injuries of the retrohepatic inferior vena cava. Presented at the 25th Annual Colorado Trauma Symposium, Breckenridge, CO, July 1998.
4. Blunt carotid arterial injuries. Presented at the 25th Annual Colorado Trauma Symposium, Breckenridge, CO, July 1998.
5. Blunt injuries to the internal carotid artery. Presented at Aspen Valley Hospital CME Program, Aspen, CO, September 1998.
6. Coagulopathy in severe trauma and critically ill patients. Presented at Boulder Community Hospital CME Program, Boulder, CO, March 1999.

7. Blunt cerebrovascular injuries. Presented at Poudre Valley Hospital CME Program, Fort Collins, CO, May 1999.
8. Cerebrovascular trauma. Presented at Western Colorado Trauma Association CME Program, Redstone, CO, May 1999.
9. Coagulopathy in severe trauma and critically ill patients. Presented at Longmont United Hospital CME Program, Longmont, CO, October 1999.
10. Blunt carotid and vertebral arterial injuries. Presented at the 26th Annual Rocky Mountain Trauma and Emergency Medicine Conference, Steamboat Springs, CO, August 2000.
11. Abdominal trauma in adult and pediatric patients. Presented at Mercy Medical Center Trauma Conference, Durango, CO, January 2001.
12. Blunt cerebrovascular injuries in pediatric and adult patients. Presented at Vail Valley Medical Center, Vail, CO, January 2001.
13. Postinjury torso ultrasound: FAST should be SLOH. Presented at the 28th Annual Rocky Mountain Trauma and Emergency Medicine Conference, Steamboat Springs, CO, July 2001.
14. A multidisciplinary clinical pathway for unstable patients with pelvic fractures. Presented at the 28th Annual Rocky Mountain Trauma and Emergency Medicine Conference / Denver Health Medical Center Multidisciplinary Trauma Teleconference, Steamboat Springs, CO, July 2001.
15. Cadaver lab: Advanced surgical exposure techniques. Presented at the 28th Annual Rocky Mountain Trauma and Emergency Medicine Conference, Steamboat Springs, CO, July 2001.
16. Trauma, blood transfusions, and multiple organ failure. Presented at Central Rockies Conference on Emergency Nursing, Glenwood Springs, CO, September 2001.
17. Diagnosis of blunt abdominal trauma. Presented at Arkansas Valley Regional Medical Center CME Program, La Junta, CO, October 2001.
18. Blunt cerebrovascular injuries. Presented at Parkview Medical Center CME Program, Pueblo, CO, October 2001.
19. Blunt cerebrovascular injuries. Presented at North Colorado Medical Center CME Program, Greeley, CO, November 2001.
20. Complex issues in surgical critical care. Presented at Westerly Hospital CME Program, Westerly, RI, May 2002.
21. Splenic autotransplantation: Maintaining immunocompetence after splenectomy. Presented at the 7th Annual New England Regional Trauma Conference, Burlington, MA, November 2002.
22. Difficult trauma case presentation, panel discussion. Presented at the 9th Annual New England Regional Trauma Conference, Burlington, MA, November 2004.
23. Blunt aortic trauma. Presented at Medical Grand Rounds, Charlton Memorial Hospital, Fall River, MA, March 2005.

24. The immune and inflammatory consequences of pain and pain management. Presented at Newport Hospital Grand Rounds, Newport Hospital, Newport, RI, January 2006.
25. The immune and inflammatory consequences of pain and pain management. Presented at Medical Grand Rounds, Charlton Memorial Hospital, Fall River, MA, May 2006.
26. Rhode Island's statewide trauma system. Presented at Newport Hospital Grand Rounds, Newport, RI, January 2007.
27. Penetrating neck trauma. Presented at Valley View Hospital CME Program, Glenwood Springs, CO, August 2007.
28. Initial evaluation and stabilization of the acute trauma patient. Presented at Community Hospital Trauma CME Program, Torrington, WY, September 2007.
29. Initial evaluation and stabilization of the acute trauma patient. Presented at Platte County Memorial Hospital Trauma CME Program, Wheatland, WY, September 2007.
30. Trauma in the elderly. Presented at Mercy Regional Medical Center Trauma CME Program, Durango, CO, September 2007.
31. Initial Evaluation, Stabilization, and Transfer of Acutely Injured Patients; and Case Studies in the Management of Multisystem Trauma. Presented at South Metro Fire Rescue Clinical Masters Series, Centennial, CO, November 2007.
32. The multidisciplinary management of pelvic fractures. Presented at Exempla Saint Joseph's Hospital Surgical Resident Lecture Series, January 2008.
33. Trauma, transfusions, and multiple organ failure. Presented at Rocky Mountain Advanced Surgical Symposium, Vail, CO, February 2008.
34. The immune and inflammatory consequences of pain and pain management. Presented at Rocky Mountain Advanced Surgical Symposium, Vail, CO, February 2008.
35. Screening for blunt cerebrovascular injuries. Presented at Rocky Mountain Advanced Surgical Symposium, Vail, CO, February 2008.
36. Coagulopathies in trauma. Presented at Longmont United Hospital CME Program, Longmont, CO, July 2008.
37. Splenic trauma: A trauma surgeon's perspective. Presented at the Colorado Radiological Society, Denver, CO, October 2008.
38. Abdominal trauma and multidisciplinary management of patients with pelvic fractures. Presented at Mercy Regional Medical Center & Denver Health/Rocky Mountain Regional Trauma Center 2009 Trauma Perspectives Conference, Durango, CO, April 2009.
39. Acute management of patients with multiple trauma. Presented at Mercy Regional Medical Center & Denver Health/Rocky Mountain Regional Trauma Center 2009 Trauma Perspectives Conference, Durango, CO, April 2009.

40. Transfusion practices in trauma and critical care. Presented at the 36th Annual Rocky Mountain Trauma & Emergency Medicine Conference, Breckenridge, CO, June 2009.
41. Prevention of surgical site infections. Presented at Colorado Hospital Association Infection Prevention Collaborative, Greenwood Village, CO, March 2010.
42. Blood transfusion strategies in trauma and critical care. Presented at Memorial Hospital CME Program, Craig, CO, March 2010.
43. Penetrating abdominal trauma. Presented at the 37th Annual Rocky Mountain Trauma & Emergency Medicine Conference, Breckenridge, CO, June 2010.
44. Current concepts in transfusion in trauma and critical care. Presented at Aspen Valley Hospital CME Program, Aspen, CO, August 2010.
45. Blood transfusions and hospital-acquired infections. Presented at Colorado Hospital Association Infection Prevention Webinar, Denver, CO, August 2010.
46. Hemostasis-directed resuscitation. Presented at Mercy Regional Medical Center & Denver Health/Rocky Mountain Regional Trauma Center 2010 Trauma & Critical Care Conference, Durango, CO, October 2010.
47. Thoracic trauma. Presented at Mercy Regional Medical Center & Denver Health/Rocky Mountain Regional Trauma Center 2010 Trauma & Critical Care Conference, Durango, CO, October 2010.
48. Difficult trauma cases. Presented at Mercy Regional Medical Center & Denver Health/Rocky Mountain Regional Trauma Center 2010 Trauma & Critical Care Conference, Durango, CO, October 2010.
49. Penetrating neck trauma. Presented at Longmont United Hospital CME Program, Longmont, CO, October 2010.
50. Pelvic packing for severe hemorrhage from pelvic fractures. Presented at Pediatric Trauma Conference 2010, Aurora, CO, November 2010.
51. Current concepts in transfusion in trauma and critical care. Presented at Yampa Valley Medical Center CME Program, Steamboat Springs, CO, November 2010.
52. Management of thoracic and abdominal trauma. Presented at Eagle County Ambulance District, February 2011.
53. Trauma in the elderly. Presented at Longmont United Hospital CME Program, Longmont, CO, March 2011.
54. Implementing a hospital-wide evidence-based protocol using “Lean” tools. Presented at Boulder Community Hospital CME Conference, Boulder, CO, July 2011.
55. The Denver Health Outreach Program. Presented at Case Studies in Trauma- How the System Should Work, Steamboat Springs, CO, September 2011.

56. Hemostasis-directed resuscitation and massive transfusion. Presented at Northern Colorado Emergency & Trauma Care Symposium, Loveland, CO, October 2011.
57. Debate: Acute care surgery is a good idea! Presented at the Eiseman Lecture of the Denver Academy of Surgery, Denver, CO, November 2011.
58. Transfusions in trauma: Damage control and hemostasis-directed resuscitation. Presented at the 1st Annual Denver Health Regional Trauma Care Trauma Symposium, Burlington, CO, March 2012.
59. Hemostasis-directed resuscitation and massive transfusion. Presented at Vail Valley Medical Center CME Program, Vail, CO, April 2012.
60. Penetrating neck trauma. Presented at the 4th Annual Western Colorado Trauma Conference, Delta, CO, June 2012.
61. Hemostasis-directed resuscitation and massive transfusion. Presented at Longmont United Hospital CME Program, Longmont, CO, June 2012.
62. Trauma in a “real” setting. Presented at the 39th Annual Rocky Mountain Trauma & Emergency Medicine Conference, Breckenridge, CO, June 2012.
63. Benchmarking trauma care in Colorado. Presented at the 39th Annual Rocky Mountain Trauma & Emergency Medicine Conference, Breckenridge, CO, June 2012.
64. Current concepts in the prevention of surgical site infections. Presented at the Colorado Foundation for Medical Care HAI Prevention Learning & Action Network, Aurora, CO, September 2012.

National

1. Prophylaxis against deep venous thrombosis is overrated. Presented at Horizons in Surgery, Breckenridge, CO, March 1994.
2. Mediators of neutrophil priming. Presented at the 56th Annual Meeting of the Society of University Surgeons, Denver, CO, February 1995.
3. Prophylaxis against deep venous thrombosis is overrated. Presented at the Collier Surgical Society Annual Meeting, Colorado Springs, CO, October 1996.
4. Prophylaxis against deep venous thrombosis is overrated. Presented at Horizons in Surgery, Breckenridge, CO, March 1997.
5. Dysfunctional neutrophil apoptosis promotes postinjury multiple organ failure. Presented before the Society of University Surgeons Foundation Executive Committee, Milwaukee, WI, February 1998.
6. Management of nosocomial pneumonia in post-surgical patients. Presented at Merck Scientific Program, Salt Lake City, UT, November 1998.
7. New ideas in post-traumatic inflammation. Presented at Horizons in Surgery, Breckenridge, CO, March 1999.

8. Blunt carotid arterial injuries. Presented at the 51st Annual Meeting of the Southwestern Surgical Congress, Coronado, CA, April 1999.
9. Challenging cases in trauma. Panel discussion at Horizons in Surgery, Breckenridge, CO, March 2001.
10. The blunt cerebrovascular injury: An underappreciated entity. Presented at Trauma & Critical Care 2001, Las Vegas, NV, March 2001.
11. Preexisting conditions in trauma. Presented at Trauma & Critical Care 2001, Las Vegas, NV, March 2001.
12. Evaluation for abdominal compartment syndrome. Presented at Trauma & Critical Care 2001, Las Vegas, NV, March 2001.
13. Imaging studies should be employed to diagnose soft tissue infections. Presented at the 21st Annual Meeting of the Surgical Infection Society, Snowbird, UT, May 2001.
14. The gut as a mediator of distant organ injury: Mesenteric lymph as the conduit. Presented at the 24th Annual Conference on Shock, Marco Island, FL, June 2001.
15. Sepsis and multiple organ failure. Presented at Southeastern Surgical Congress/Southwestern Surgical Congress Comprehensive Clinical Review in General Surgery 2001, Denver, CO, September 2001.
16. Portal hypertension. Presented at Southeastern Surgical Congress/Southwestern Surgical Congress Comprehensive Clinical Review in General Surgery 2001, Denver, CO, September 2001.
17. Difficult exposure problems: The high carotid artery injury. Presented at Trauma & Critical Care 2002, Las Vegas, NV, March 2002.
18. Trauma scoring: The good, the bad, and the unreliable. Presented at Trauma & Critical Care 2002, Las Vegas, NV, March 2002.
19. Overcoming staffing shortages in the trauma center. Presented at Trauma & Critical Care 2002, Las Vegas, NV, March 2002.
20. Blunt cerebrovascular injuries. Presented at St. Joseph's Hospital and Medical Center's "February in Phoenix" Annual Trauma Symposium, Phoenix, AZ, February 2003.
21. Blood transfusions and multiple organ failure. Presented at St. Joseph's Hospital and Medical Center's "February in Phoenix" Annual Trauma Symposium, Phoenix, AZ, February 2003.
22. The open abdomen: Acute management and definitive closure. Presented at the Postgraduate Course of the 56th Annual Meeting of the Southwestern Surgical Congress, Monterey, CA, April 2004.
23. Coagulopathy in severe trauma and critically ill patients. Presented at The International Trauma Anesthesia and Critical Care Society symposium, "Trauma: The Team Approach to a Clinical Challenge," Cape Cod, MA, July 2004.
24. Penetrating neck injuries. Presented at The International Trauma Anesthesia and Critical Care Society symposium, "Trauma: The Team Approach to a Clinical Challenge," Cape Cod, MA, July 2004.

25. Pre-existing conditions in the trauma patient. Presented at The International Trauma Anesthesia and Critical Care Society symposium, "Trauma: The Team Approach to a Clinical Challenge," Cape Cod, MA, July 2004.
26. Diagnosis of blunt cerebrovascular injuries. Presented in the Postgraduate Course, "Controversial Issues in Trauma" at the 90th Clinical Congress of the American College of Surgeons, New Orleans, LA, October 2004.
27. Prevention of surgical site infections. Presented at the Postgraduate Course, "Update on Infection and Antibiotics for the Surgeon" at the 57th Annual Meeting of the Southwestern Surgical Congress, San Antonio, TX, April 2005.
28. Initial evaluation of the injured patient. Presented at The International Trauma Anesthesia and Critical Care Society symposium, "Trauma: The Team Approach," Hilton Head, SC, April 2005.
29. Pre-existing conditions in trauma patients. Presented at The International Trauma Anesthesia and Critical Care Society symposium, "Trauma: The Team Approach," Hilton Head, SC, April 2005.
30. Trauma scoring: The good, the bad, and the unreliable. Presented at The International Trauma Anesthesia and Critical Care Society symposium, "Trauma: The Team Approach," Hilton Head, SC, April 2005.
31. Trauma, blood transfusions, and multiple organ failure. Presented at The International Trauma Anesthesia and Critical Care Society symposium, "Trauma: The Team Approach," Hilton Head, SC, April 2005.
32. Coagulopathy in severe trauma and critically ill patients. Presented at The International Trauma Anesthesia and Critical Care Society symposium, "Trauma: The Team Approach," Hilton Head, SC, April 2005.
33. Managing the anticoagulated trauma patient. Presented at the American College of Surgeons' "Trauma and Critical Care 2005- Point/Counterpoint XXIV," Atlantic City, NJ, June 2005.
34. Spinal immobilization in the elderly: A death sentence? Presented at the American College of Surgeons' "Trauma and Critical Care 2005- Point/Counterpoint XXIV," Atlantic City, NJ, June 2005.
35. Trauma in the elderly. Presented at the 33rd Annual Rocky Mountain Trauma & Emergency Medicine Conference, Breckenridge, CO, June 2006.
36. Splenic salvage: Have we gone too far? Presented at the 33rd Annual Rocky Mountain Trauma & Emergency Medicine Conference, Breckenridge, CO, June 2006.
37. Medical disasters- Are we really prepared? An analysis of The Station nightclub fire. Presented at the Hawaiian Islands Trauma Symposium, Honolulu, HI, July 2006.
38. Managing elderly trauma patients. Presented at the Hawaiian Islands Trauma Symposium, Honolulu, HI, July 2006.
39. Screening for blunt cerebrovascular injuries. Presented at the Hawaiian Islands Trauma Symposium, Honolulu, HI, July 2006.

40. Spinal immobilization in the elderly: A death sentence? Presented at the Hawaiian Islands Trauma Symposium, Honolulu, HI, July 2006.
41. Legal prosecution rates of alcohol impaired drivers admitted to a level I trauma center. Presented at the Hawaiian Islands Trauma Symposium, Honolulu, HI, July 2006.
42. Blunt cerebrovascular injury after trauma: Screening and treatment. Presented at the 4th Annual Neurocritical Care Society Meeting, Baltimore, MD, November 2006.
43. The puzzle of blunt carotid and vertebral artery trauma. Presented at the Harvard Critical Care and Trauma Symposium, Boston, MA, November 2006.
44. Blunt carotid and vertebral artery injuries: Clinical presentation and management. Presented at the 92nd Scientific Assembly and Annual Meeting of the Radiological Society of North America, Chicago, IL, November 2006.
45. Responsible development and implementation of surgical innovations- A Society of University Surgeons consensus statement. Presented at the 2nd Annual Academic Surgical Congress, Phoenix, AZ, February 2007.
46. Adverse consequences of blood transfusion. Presented at the Annual Spring Meeting of the American College of Surgeons, Las Vegas, NV, April 2007.
47. Transfusion practices in critical care. Presented at the Annual Spring Meeting of the American College of Surgeons, Las Vegas, NV, April 2007.
48. Abdominal trauma: A trauma surgeon's perspective. Presented at the American Society of Emergency Radiology Annual Meeting, La Jolla, CA, October 2007.
49. What's all the fuss about blunt cervical vascular injuries? Presented at the American Society of Emergency Radiology Annual Meeting, La Jolla, CA, October 2007.
50. Evaluation of blunt cerebrovascular injuries. Presented at the 93rd Annual Clinical Congress of the American College of Surgeons, New Orleans, LA, October 2007.
51. Critical care review. Presented at the 93rd Annual Clinical Congress of the American College of Surgeons' General Surgery Review Course, New Orleans, LA, October 2007.
52. Blunt cerebrovascular injuries. Presented at Surgical Grand Rounds, Hospital of Saint Raphael, New Haven, CT, November 2007.
53. Penetrating abdominal trauma. Presented at Surgical Grand Rounds, Queens Medical Center/ University of Hawaii, Honolulu, HI, September 2008.
54. Blunt cerebrovascular injuries: State of the art. Presented at Surgical Grand Rounds, Queens Medical Center/ University of Hawaii, Honolulu, HI, September 2008.
55. Current concepts in the prevention of surgical site infections. Presented at the 4th Academic Surgical Congress, Fort Myers, FL, February 2009.

56. Engaging physicians in patient safety and quality: The Lean approach. Presented at the University HealthSystem Consortium Risk and Quality Management Council Meeting, San Antonio, TX, February 2009.
57. Critical decisions in trauma: Blunt cerebrovascular injuries. Presented at the 39th Annual Meeting of the Western Trauma Association, Crested Butte, CO , February 2009.
58. The trauma outreach program. Presented at the 55th Annual Symposium of the Society of Air Force Clinical Surgeons, Denver, CO, April 2009.
59. Maximizing value and minimizing waste in patient safety: “Leaning” the process of venous thromboembolism prophylaxis. Presented at the Benchmarking Coordinators’ Meeting, University HealthSystems Consortium 2009 Quality and Safety Fall Forum, Atlanta, GA, September 2009.
60. Challenging cases in blunt trauma. Presented at the 68th Annual Meeting of the American Association for the Surgery of Trauma, Pittsburgh, PA, September 2009.
61. The blood storage lesion and “evil spirits.” Presented at the 95th Annual Clinical Congress of the American College of Surgeons, Chicago, IL, October 2009.
62. Distinguishing minor modifications of accepted procedures from innovation. Presented at the 95th Annual Clinical Congress of the American College of Surgeons, Chicago, IL, October 2009.
63. Current concepts in the diagnosis and management of blunt cerebrovascular injuries. Presented at Surgical Grand Rounds, Oregon Health & Science University, Portland, OR, November 2009.
64. Organized and moderated symposium, “Current concepts in the prevention of surgical site infections.” Presented at the 5th Academic Surgical Congress, San Antonio, TX, February 2010.
65. UHC Member Spotlight: “Leaning” the process of venous thromboembolism prophylaxis. University HealthSystems Consortium Webinar, co-presented with Matt Beno, March 2010.
66. Appendicitis: Epidemiology, pathogenesis, and diagnosis. Presented at the 96th Annual Clinical Congress of the American College of Surgeons, Washington, DC, October 2010.
67. Acute care surgery. Presented at Surgical Grand Rounds, Queens Medical Center/ University of Hawaii, Honolulu, HI, April 2011.
68. Debate: Acute care surgery is a good idea! Presented at the 63rd Annual Meeting of the Southwestern Surgical Congress, Ko Olina, HI, April 2011.
69. Initial evaluation and management of the multisystem trauma patient. Presented at Trauma Care: Bruised and Bleeding Conference, Rapid City, SD, June 2011.
70. Hemostasis-directed resuscitation. Presented at Trauma Care: Bruised and Bleeding Conference, Rapid City, SD, June 2011.
71. Damage control surgery. Presented at Trauma Care: Bruised and Bleeding Conference, Rapid City, SD, June 2011.

72. Engaging physicians in “leaning” clinical processes. Presented at Stony Brook University Medical Center, Stony Brook, NY, October 2011.
73. Geriatric trauma. Presented at 3rd Annual Rimrock Trauma Conference, Billings, MT, November 2011.
74. Medical disasters: Are we really prepared? Presented at 3rd Annual Rimrock Trauma Conference, Billings, MT, November 2011.
75. Multidisciplinary management of pelvic fractures and the role of pelvic packing. Presented at 14th Annual Texas Health Trauma Conference, Fort Worth, TX, April 2012.
76. Resuscitative thoracotomy. Presented at the 71st Annual Meeting of the American Association for the Surgery of Trauma, Kauai, HI, September 2012.
77. Current concepts in the prevention of surgical site infections. Presented at Hospital Engagement Network Webinar, Denver, CO, November 2012.
78. Endovascular therapy should NOT be considered first-line treatment for traumatic vascular injuries. Debate presented at the 26th Annual Scientific Assembly of the Eastern Association for the Surgery of Trauma, Scottsdale, AZ, January 2013.
79. Critical decisions in trauma: Management of pancreatic injuries. Presented at the 43rd Annual Meeting of the Western Trauma Association, Snowmass, CO, March 2013.
80. The Hartman’s Procedure is not the best option for Hinchey III diverticulitis. Debate presented at the 65th Annual Meeting of the Southwestern Surgical Congress, Santa Barbara, CA, March 2013.
81. Percutaneous tracheostomy. To be presented at the 99th Annual Clinical Congress of the American College of Surgeons, Washington, DC, October 2013.
82. Neck trauma. To be presented at the 99th Annual Clinical Congress of the American College of Surgeons, Washington, DC, October 2013.

International

1. Staged laparotomy and the abdominal compartment syndrome. Presented at the 4th International Congress on the Immune Consequences of Trauma, Shock and Sepsis, Munich, Germany, March 1997.
2. Dysfunctional neutrophil apoptosis promotes postinjury multiple organ failure. Presented at the 61st Annual Meeting of the Society of University Surgeons, Toronto, Ontario, Canada, February 2000.
3. Effects of trauma and blood transfusion on neutrophil priming and apoptosis: Setting the stage for multiple organ failure. Presented at the 5th World Congress on Trauma, Shock, Inflammation and Sepsis, Munich, Germany, March 2000.
4. Abdominal compartment syndrome. Panel discussion at the 53rd Annual Meeting of the Southwestern Surgical Congress, Cancun, Mexico, April 2001.
5. Surgical decision making- Damage control surgery. Presented at Definitive Surgical Trauma Care Course, Sydney, Australia, July 2007.

6. Operative approaches and pitfalls- Pelvic trauma. Presented at Definitive Surgical Trauma Care Course, Sydney, Australia, July 2007.
7. Surgical decision making- Penetrating neck injury. Presented at Definitive Surgical Trauma Care Course, Sydney, Australia, July 2007.
8. Trauma in pregnancy. Presented at Definitive Perioperative Nurses Trauma Care Course, Sydney, Australia, July 2007.
9. Postinjury multiple organ failure- Historical perspective, current trends, future directions. Presented at Trauma Grand Rounds, John Hunter Hospital, Newcastle, Australia, July 2007.
10. Ideal pre-hospital communication. Presented at SWAN XV Trauma Conference, Sydney, Australia, July 2007.
11. Splenic embolization: Have we gone too far? Presented at SWAN XV Trauma Conference, Sydney, Australia, July 2007.
12. Blunt cerebrovascular injury: More common than you think! Presented at SWAN XV Trauma Conference, Sydney, Australia, July 2007.
13. Halo-vest immobilization in the elderly: A death sentence. Presented at SWAN XV Trauma Conference, Sydney, Australia, July 2007.
14. Blood transfusion strategies in trauma. Presented at SWAN XV Trauma Conference, Sydney, Australia, July 2007.
15. Early spinal decompression improves outcomes. Presented at SWAN XV Trauma Conference, Sydney, Australia, July 2007.
16. Blunt cerebrovascular injuries. Presented at Nordic Forum on Trauma & Emergency Radiology, Aronsberg Conference Center, Stockholm, Sweden, October 2007.
17. Blunt abdominal trauma overview. Presented at Definitive Surgical Trauma Care Course, Melbourne, Australia, November 2008.
18. Surgical techniques- Subclavian/neck exposure. Presented at Definitive Surgical Trauma Care Course, Melbourne, Australia, November 2008.
19. Surgical decision making- Penetrating neck injury. Presented at Definitive Surgical Trauma Care Course, Melbourne, Australia, November 2008.
20. Surgical techniques- Pancreas and duodenum. Presented at Definitive Surgical Trauma Care Course, Melbourne, Australia, November 2008.
21. Debate: The plain c-spine x-ray is obsolete in the resuscitation room. Presented at Austrama 2009 Trauma, Critical Care and Emergency Surgery Conference, Sydney, Australia, February 2009.
22. Penetrating neck trauma. Presented at Austrama 2009 Trauma, Critical Care and Emergency Surgery Conference, Sydney, Australia, February 2009.

23. Screening for blunt cerebrovascular injuries. Presented at Austrama 2009 Trauma, Critical Care and Emergency Surgery Conference, Sydney, Australia, February 2009.
24. Trauma scoring: Who cares? Presented at Austrama 2009 Trauma, Critical Care and Emergency Surgery Conference, Sydney, Australia, February 2009.
25. Trauma in the USA. Presented at Malaysia and Singapore Trauma Symposium 2009, Kuala Lumpur, Malaysia, October 2009.
26. Controversies in trauma: The exsanguinating pelvic fracture patient. Presented at Malaysia and Singapore Trauma Symposium 2009, Kuala Lumpur, Malaysia, October 2009.
27. Trauma at the movies. Presented at Malaysia and Singapore Trauma Symposium 2009, Kuala Lumpur, Malaysia, October 2009.
28. Abdominal compartment syndrome. Presented at Definitive Surgical Trauma Care Course, Singapore, October 2009.
29. Closure of the open abdomen. Presented at Definitive Surgical Trauma Care Course, Singapore, October 2009.
30. Major vascular trauma. Presented at Definitive Surgical Trauma Care Course, Singapore, October 2009.
31. Mesenteric ischemia. Presented at the 1st Annual Congress of the World Society of Emergency Surgery, Bologna, Italy, July 2010.
32. Secondary abdominal compartment syndrome. Presented at the 1st Annual Congress of the World Society of Emergency Surgery, Bologna, Italy, July 2010.
33. Imaging of small bowel obstruction. Presented at the 1st Annual Congress of the World Society of Emergency Surgery, Bologna, Italy, July 2010.
34. Trauma in the elderly. Presented at “Perspectives on Trauma in the USA,” Waikato Hospital Grand Rounds, Hamilton, New Zealand, November 2012.
35. Damage control overview. Presented at Definitive Surgical Trauma Care Course, Melbourne, Australia, November 2012.
36. Blunt thoracic trauma overview. Presented at Definitive Surgical Trauma Care Course, Melbourne, Australia, November 2012.
37. Penetrating thoracic trauma overview. Presented at Definitive Surgical Trauma Care Course, Melbourne, Australia, November 2012.
38. Surgical techniques- Pancreas and duodenum. Presented at Definitive Surgical Trauma Care Course, Melbourne, Australia, November 2012.
39. Pathophysiology of abdominal compartment syndrome. Presented at “The Use of the Open Abdomen in Trauma and Non-trauma Patients”, Bergamo, Italy, April 2013.

40. Developing an algorithm for the management of unstable pelvic fractures. *Lectio magistralis* at Italian consensus conference on the management of unstable pelvic fractures, Bergamo, Italy, April 2013.
41. Management of pancreatic and duodenal trauma. To be presented at the 2nd Annual Congress of the World Society of Emergency Surgery, Bergamo, Italy, July 2013.
42. Acute surgical conditions of the gallbladder and appendix. To be presented at the International Surgical Society, Helsinki, Finland, August 2013.

Visiting Professorships

1. Loyola University, Maywood, IL/Cook County Hospital, Chicago, IL- September 2003
 - Cook County Hospital Grand Rounds- Blunt cerebrovascular injuries
 - Clinical Case Presentations
 - Research Presentations
 - Loyola University Surgical Grand Rounds- Blunt cerebrovascular injuries
 - Guest Moderator, Chicago Metropolitan Trauma Society
2. U.S. Army Institute of Surgical Research at Fort Sam Houston, TX- May 2004
 - Brooke Army Medical Center Trauma Grand Rounds- Blunt cerebrovascular injuries
 - Case Presentation
 - Burn Unit Rounds
3. University of Maryland R. Adams Cowley Shock Trauma Center, Baltimore, MD- June 2005
 - Trauma Fellows Conference
 - R. Adams Cowley Shock Trauma Center/University of Maryland Grand Rounds- The immune and inflammatory consequences of pain and pain management
4. University of Alabama- Birmingham, Birmingham, AL- July 2005
 - Clinical Case Presentations
 - Department of Surgery Grand Rounds- Blunt cerebrovascular injuries
5. University of Texas at Houston, Houston, TX- August 2005
 - Department of Surgery Grand Rounds- Blunt cerebrovascular injuries
 - Department of Radiology Conference- Blunt cerebrovascular injuries
 - Research Conference- Trauma, Blood Transfusions, and Multiple Organ Failure
6. George Washington University, Washington, DC- October 2005
 - Trauma Morbidity & Mortality Conference
 - Surgical Grand Rounds- Trauma, Blood Transfusions, and Multiple Organ Failure
7. University of Massachusetts Medical Center, Worcester, MA- January 2006
 - Department of Surgery Grand Rounds- Blunt cerebrovascular injuries
 - Trauma Team Rounds
 - Case Presentation Conference
8. Berkshire Medical Center, Pittsfield, MA- February 2006
 - Department of Surgery Grand Rounds- New concepts in the management of splenic trauma
 - Morbidity and Mortality Conference

- Walk-Rounds with Residents and Medical Students
 - Surgical Resident Conference- Blunt cerebrovascular injuries
9. John Hunter Hospital, Newcastle, Australia- July 2007
 - Multidisciplinary Trauma Forum
 - Trauma Department Grand Rounds- Current concepts in multiple organ failure
 - Orthopaedic Trauma Conference
 - Multidisciplinary Death Review Panel
 10. Karolinska Hospital, Stockholm, Sweden- October 2007
 - Nordic Forum on Trauma & Emergency Radiology- 2-day Consensus Conference on Blunt Cerebrovascular Injuries (BCVI), Aronsberg Conference Center
 - Open Forum on BCVI at Karolinska Hospital
 - Training Session
 11. Oregon Health & Science University, Portland, OR- November 2009
 - Department of Surgery Grand Rounds- Current concepts in the diagnosis and management of blunt cerebrovascular injuries
 - Basic Science Conference
 - ICU Visiting Professor Rounds
 - Surgery Research Residents' Conference
 12. Duke University, Durham, NC- June 2010
 - Department of Surgery Grand Rounds- Transfusions in trauma and critical care
 - Basic Science Research Presentations

TEACHING RECORD

Presentations to Students, Residents, Fellows (in addition to invited lectures listed above)

1. New ideas in post-traumatic inflammation. Presented at University of Colorado Senior Medical Student Seminar, Denver, CO, April 1999.
2. Acute management of patients with multiple trauma. Presented at University of Colorado Physical Medicine and Rehabilitation Residents' Trauma Rehabilitation Lecture Series, Denver, CO, December 1999.
3. Neutrophil priming and apoptosis, blood transfusion, and multiple organ failure. Presented at University of Colorado Senior Medical Student Seminar, Denver, CO, April 2000.
4. Cardiac trauma. Presented at Cardiology Fellows Conference, Rhode Island Hospital/Brown Medical School, Providence, RI, March 2005.
5. New concepts in the prevention of surgical site infections. Brown Medical School Surgical Resident Roundtable. Providence, RI, December 2005.
6. Cardiac trauma. Presented at Cardiology Fellows Conference, Rhode Island Hospital/Brown Medical School, Providence, RI, May 2006.

7. Multidisciplinary management of unstable pelvic fractures. Presented at Brown Medical School Department of Emergency Medicine Trauma Conference, Providence, RI, May 2006.
8. Cardiac trauma. Presented at Brown Medical School Department of Emergency Medicine Trauma Conference, Providence, RI, May 2006.
9. Cardiac trauma. Presented at Brown Medical School Trauma Service Conference, Providence, RI, September 2006.
10. The multidisciplinary management of pelvic fractures. Presented at Exempla Saint Joseph's Hospital Surgical Resident Lecture Series, January 2008.

Ward/Clinic Attending Duties

- 1997-2002 and 2007-present, Denver Health Medical Center: Supervision and bedside/operating room teaching of students and residents, 52 weeks/year
- 2002-2007, Rhode Island Hospital: Supervision and bedside/operating room teaching of students and residents, 52 weeks/year

Administrative Teaching Positions

- Director, Fellowship in Surgical Critical Care, Rhode Island Hospital, Providence, RI, February 2002 - March 2007
- Chief, Division of Trauma and Surgical Critical Care, Rhode Island Hospital, Providence, RI, February 2002 - March 2007
- Associate Residency Program Director, Residency in General Surgery, University of Colorado-Denver, June 2009-May 2011

Teaching Roles

- Organizer and Facilitator, Denver Health Medical Center Monthly Multidisciplinary Trauma Teleconference, 1997-2002
- Organizer and Facilitator, Abernathy Review (Monthly Journal Club), University of Colorado Department of Surgery, 1998-2002 and 2007-present
- Organizer and Facilitator, Denver Health Medical Center Weekly Preoperative Planning Conference, 1999-2002
- Lecturer, Brown Medical Student Core Curriculum Lecture Series in Surgery, 2002-2007
- Organizer and Facilitator, Rhode Island Hospital/Brown Medical School Weekly Trauma Conference, 2002-2007
- Organizer and Facilitator, Rhode Island Hospital/Brown Medical School Weekly Trauma/Critical Care Conference, 2002-2007
- Organizer and Facilitator, Rhode Island Hospital/Brown Medical School Weekly Critical Care Conference, 2002-2004
- Organizer and Facilitator, Rhode Island Hospital/Brown Medical School Department of Surgery Weekly Patient Management Conference, 2002-2003
- Organizer and Facilitator, Rhode Island Hospital/Brown Medical School Department of Surgery Monthly Journal Club, 2002-2003
- American College of Surgeons Advanced Trauma Life Support Regional Faculty, 2003-Present

- Organizer and Facilitator, Rhode Island Hospital/Brown Medical School Daily Trauma Morning Report, 2006-2007
- Organizer and Facilitator, Denver Health Medical Center weekly Acute Care Surgery Conference, 2007
- Organizer and Facilitator, Denver Health Medical Center weekly Preoperative Planning Conference, 2007-Present
- Surgical Intensive Care Unit attending walk-rounds 2 days/week
- Trauma Handbook- an evidence-based guide for managing problems in Trauma and Surgical Critical Care- was updated and revised annually, and distributed to the faculty and housestaff in the Departments of Surgery and Emergency Medicine at Brown Medical School, 2002-2007
- American College of Surgeons Advanced Trauma Life Support Course Director, 2008-Present
- Preceptor, Oral Presentation Session ICC 7001, University of Colorado School of Medicine, 2008
- Preceptor, Foundations of Doctoring, University of Colorado School of Medicine, 2008-Present
- Mentor, Colorado Area Health Education Centers Summer Health Career Institute, 2009-Present

INVESTIGATOR-INITIATED RESEARCH FUNDING (All as P.I. except as noted)

United States Department of Defense

PI: Ivor Douglas, MD

Project: DM110148; Rapid microbiological diagnostics for MDRO quantitative identification and resistance phenotyping to guide antibiotic selection in wounded warriors and veterans

Award: \$1,997,777

Funding Period: May 2012 – April 2015

Salary Support: 2%

Centers for Medicare and Medicaid Services/Intermountain Healthcare

PI: Connie S. Price, MD

Project: A Hospital Engagement Network with Intermountain and Collaborating Affinity Partners in Support of the Partnership for Patients

Award: \$199,526

Funding Period: September 28, 2011 – September 27, 2014

Salary Support: \$29,955

Agency for Healthcare Research and Quality

PIs: Lucy A. Savitz, PhD, Connie Savor Price, MD, **Walter L. Biffl, MD**

Project: "HHS290200600020i, Task Order #8 Improving the measurement of surgical site infection risk stratification and outcome detection"

Award: \$413,172

Funding Period: September 14, 2009 – March 13, 2011

Role: Co-Investigator

Salary Support: \$25,276

Agency for Healthcare Research and Quality

PI: Dan Berlowitz, MD, MPH

Project: "HHS290200600012, Task Order #5 Preventing Pressure Ulcers in Hospitals"

Award: \$499,930

Funding Period: September 15, 2008 – September 14, 2010

Role: Collaborator

Salary Support: 2%

Department of Health and Human Services

PI: Connie S. Price, MD

Project: "HHS290200600020, Task Order #7 Reducing Hospital Acquired Infections (HAI): Improving patient safety through implementing multi-disciplinary interventions"

Award: \$399,917

Funding Period: September 28, 2007 – July 31, 2009

Role: Co-Principal Investigator Salary Support: 7% Phase I, 10% Phase II

University of Colorado AEF-Seed Grant Award

Project: "Attenuation of the systemic inflammatory response to hindlimb ischemia/reperfusion and pain with neuraxial blockade"

Award: \$30,000 Funding Period: July 1, 2007 – June 30, 2008

Association of American Medical Colleges- Office of Research Integrity (US2MPORI01)

Project: "Surgical Innovation, Investigation, and the IRB"

Award: \$37,300 Funding Period: January 1, 2006 – September 30, 2007

National Institutes of Health (2 R01 AA009892-11A1)

PI: Peter M. Monti, PhD

Project: "Enhanced MI with alcohol positive trauma patients"

Award: \$2,133,733 Funding Period: May 10, 2005 - April 30, 2010

Role: Collaborator Salary Support: 5%

National Institutes of Health (R01 GM053209-11A1)

PI: Alfred Ayala, PhD

Project: "Programmed cell death: Role in septic immune dysfunction"

Award: \$1,114,841 Funding Period: December 1, 2004 - November 30, 2008

Role: Collaborator Salary Support: 1%

Eli Lilly and Company

Project: "The effects of recombinant activated protein C on neutrophil cytotoxicity and neutrophil-endothelial interactions"

Award: \$50,000 Funding Period: December 1, 2003 - November 30, 2004

National Institutes of Health Trauma Research Center Project- "Therapy for trauma primes cells," Center PI Alden H. Harken, MD (3 P50 GM 49222)

Project II (PI Walter L. Biffl, MD): "Therapeutic phenotypic reprogramming of altered leukocyte functional lifespan following trauma"

Award: \$142,104 Funding Period: April 1, 2001 – March 31, 2005

National Blood Foundation Research Grant

Project: "Blood transfusion-provoked delay in neutrophil apoptosis in trauma may be altered by modifying transfusion practices"

Award: \$50,000 Funding Period: July 1, 2000 - June 30, 2002

The Society of University Surgeons Foundation 1999 Junior Faculty Fellowship Award

Project: "Dysfunctional neutrophil apoptosis promotes postinjury multiple organ failure"

Award: \$20,000 Funding Period: July 1, 1999 - June 30, 2000

University of Colorado Dean's Academic Enrichment Award

Project: "Dysfunctional neutrophil apoptosis promotes multiple organ failure"

Award: \$20,000 Funding Period: July 1, 1998 - June 30, 1999

The Society of University Surgeons Foundation 1998 Junior Faculty Fellowship Award

Project: "Dysfunctional neutrophil apoptosis promotes postinjury multiple organ failure"

Award: \$10,000

Funding Period: July 1, 1998 - June 30, 1999

INDUSTRY-SPONSORED RESEARCH FUNDING (All as Institutional P.I.)

Novo-Nordisk

Project: "A multi-center, randomized, double-blind, parallel group, placebo-controlled trial to evaluate the efficacy and safety of activated recombinant factor VII (rFVIIa/NovoSeven®/Niasase®) in the treatment of refractory bleeding in severely injured trauma subjects"

Direct Costs: \$13,020

Funding Period: January 2006 – March 2007

MedLogic

Project: "A prospective, randomized, controlled, multi-center clinical trial of MedLogic surgical skin sealant and the prevention of surgical wound contamination"

Direct Costs: \$22,500

Funding Period: October 2005 – March 2007

GlaxoSmithKline

Project: "A prospective randomized double-blind placebo-controlled dose ranging multi-center study of the safety and efficacy of three days continuous intravenous infusion of GR270773 in the treatment of suspected or confirmed gram-negative severe sepsis in adults"

Direct Costs: \$2,000

Funding Period: December 2004 – October 2005

Wyeth Ayerst/COVANCE

Project: "A phase 3, multicenter, double-blind, randomized (3:1) study evaluating tigecycline & linezolid for the treatment of selected serious infections in subjects with vancomycin-resistant enterococcus (VRE) and evaluating tigecycline & vancomycin for the treatment of selected serious infections in subjects with methicillin-resistant staphylococcus aureus"

Direct Costs: \$2,485

Funding Period: June 2004 – March 2007

Pharmanet/Ortho-McNeil

Project: "A multicenter, open-label, randomized study to compare the safety and efficacy of once daily levofloxacin along with once daily metronidazole versus piperacillin/tazobactam in the treatment of complicated appendicitis"

Direct Costs: \$8,648

Funding Period: August 2003 – August 2004

Bristol-Myers Squibb

Project: "A randomized, double-blind, multicenter, comparative study of intravenous BMS-284756 followed by oral BMS-284756 versus piperacillin/tazobactam followed by oral amoxicillin/clavulanate in the treatment of complicated intra-abdominal infections"

Direct Costs: \$12,000

Funding Period: September 2001 – January 2002

Wyeth-Ayerst Research

Project: "A multicenter, randomized, open-label comparison study of the safety and efficacy of two intravenous dosages of GAR-936 to treat complicated skin and soft tissue infections in hospitalized patients"

Direct Costs: \$71,400

Funding Period: October 1999 – June 2001

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. **Biffi WL**, Moore EE, Moore FA, Carl VS, Kim FJ, Franciose RJ. Interleukin-6 potentiates neutrophil priming with platelet-activating factor. *Archives of Surgery* 1994; 129:1131-1136.

2. **Biffi WL**, Moore FA, Moore EE, Sauaia A, Read RA, Burch JM. Cardiac enzymes are irrelevant in the patient with suspected myocardial contusion. *The American Journal of Surgery* 1994; 169:523-528.
3. Moore EE, Moore FA, Franciose RJ, Kim FJ, **Biffi WL**, Banerjee A. The postischemic gut serves as a priming bed for circulating neutrophils that provoke multiple organ failure. *The Journal of Trauma* 1994; 37:881-887.
4. Kim FJ, Moore EE, Moore FA, **Biffi WL**, Fontes B, Banerjee A. Reperfused gut elaborates PAF that chemoattracts and primes neutrophils. *Journal of Surgical Research* 1995; 58:636-640.
5. **Biffi WL**, Moore EE, Moore FA, Carl VS, Franciose RJ, Banerjee A. Interleukin-8 increases endothelial permeability independent of neutrophils. *The Journal of Trauma* 1995; 39:98-103.
6. Barnett CC Jr., Moore EE, Moore FA, **Biffi WL**, Smith MF Jr., Carl VS. Intercellular adhesion molecule-1 promotes neutrophil-mediated cytotoxicity. *Surgery* 1995; 118:171-176.
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June 14, 2013