

Curriculum Vitae  
Christopher Beall Colwell, M.D

**Personal history**

**Current Position:**

**Director of Service (Chief), Department of Emergency Medicine  
Denver Health**

**Work Address:**

Department of Emergency Medicine  
M.C. 0108  
Denver Health Medical Center  
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Denver, Colorado 80204  
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**Education:**

- Undergraduate:**      **University of Michigan  
Ann Arbor, Michigan  
Bachelor of Science Degree, 1988**
- Medical School:**    **Dartmouth Medical School  
Hanover, New Hampshire  
Medical Doctorate, 1992**
- Internship:**         **St. Joseph Mercy Hospital/University of Michigan  
Ann Arbor, Michigan  
Transitional Medicine, 1993**
- Residency:**         **Denver Affiliated Residency in Emergency Medicine  
Denver, Colorado, 1993-1996  
Chief Resident 1995-1996**

**Academic appointments:**

- 1. Professor of Emergency Medicine, July 2012**  
Department of Emergency Medicine  
University of Colorado School of Medicine
- 2. Executive Vice Chair, Department of Emergency Medicine, 2010 - present**  
University of Colorado School of Medicine
- 3. Associate Professor of Emergency Medicine, 2010 – 2012**  
Department of Emergency Medicine  
University of Colorado School of Medicine
- 4. Associate Professor of Emergency Medicine, 2004-2009**  
Division of Emergency Medicine, Department of Surgery  
University of Colorado Health Sciences Center
- 5. Assistant Professor of Emergency Medicine, 1998-2004**  
Division of Emergency Medicine, Department of Surgery  
University of Colorado Health Sciences Center  
Denver, Colorado
- 6. Assistant Professor of Emergency Medicine, 1996-1998**  
Department of Emergency Medicine, University of Michigan School of Medicine  
Ann Arbor, Michigan

**Clinical appointments:**

- 1. Director of Emergency Medicine, 2010 – present**  
Interim Director of the Department of Emergency Medicine, 2009-2010  
Associate Director, 2000-2009  
Attending Physician, 1998-present  
Department of Emergency Medicine  
Denver Health  
Denver, Colorado
- 2. Program Director, EMS Fellowship**  
2000-2012
- 3. Medical Director, Denver Paramedic Division**  
2000-present

- 4. Medical Director, Denver Fire Department  
2000-2010**
- 5. Associate Director, Denver Paramedic Division  
1998-2000**
- 6. Senior Associate Director, Denver Health Residency in Emergency Medicine  
2009 - present**
- 7. Attending Physician, 1996-1998  
St. Joseph Mercy Hospital/University of Michigan  
Ann Arbor, Michigan**

**Honors and Awards:**

**Meritorious Service Award  
Presented by the Colorado Chapter of the American  
College of Emergency Physicians for Achievements that  
have Enhanced Colorado's Health Care System and the  
Profession of Emergency Medicine in Colorado.  
January 20<sup>th</sup>, 2015**

**2015 Patient Safety and Quality Pillar Award  
For meticulous, high-quality, and thoughtful design and  
implementation of Denver Health's Ebola Preparedness  
Plan  
June, 2015**

**The Corey M. Slovis Award for Excellence in  
Education. U.S. Metropolitan Municipalities EMS  
Medical Directors Consortium, February, 2015**

**Positively Collaborative Award for outstanding  
collaboration towards the improvement of Colorado's  
trauma system. Trauma Program, Colorado  
Department of Public Health and Environment,  
January, 2012**

**The Vincent J. Markovchick Program Director's  
Award 2011**

**Distinctive Service Award – Denver Paramedic Division  
2010**

**Chief Executive Officer Special Commendation Award for expert medical leadership of Denver's 911 system, 2009**

**Mayor's Award of Appreciation for assistance and aid to Hurricane Katrina evacuees. 2005**

**Ernest E. Moore Award for Outstanding Contributions in Trauma Care, 2000**

**Outstanding Senior Resident, 1996**

**Chief Resident, Emergency Medicine Residency, 1995-1996**

**Membership in professional organizations:**

- 1. American College of Emergency Physicians (ACEP), 1994-present**
  - a. Fellow, 1999-present**
  - b. Colorado ACEP, 1993-1996, 1998-present**
  - c. Michigan ACEP, 1996-1998**
- 2. American Medical Association (AMA), 1993-2000, 2006-present**
- 3. National Association of EMS Physicians (NAEMSP), 2002-present**
- 4. Society for Academic Emergency Medicine (SAEM), 1995-2000, 2008-present**
- 5. Emergency Medicine Residents Association (EMRA), 1992-1997**

**Major Committee, Teaching, and Service Responsibilities:**

1. Board of Directors, American College of Emergency Physicians – Colorado Chapter, 2007-2011
2. Conference Director, Annual Rocky Mountain Conference in Trauma and Emergency Medicine, 2003 – present
3. American Board of Emergency Medicine (ABEM) Oral Board Examiner, 2011 - present
4. Course Director, Introduction to Traumatic Emergencies, (SURG 6623) University of Colorado School of Medicine, 1999
  - a. A course for second year medical students that introduces the student to selected traumatic emergencies and their management
5. Course Director, Prehospital Medicine (SURG 6626), University of Colorado at Denver School of Medicine, 2005-present

- a. A course for first and second year medical students that introduces them to prehospital medicine and includes clinical time riding on an ambulance
6. Course Director, Flight Medicine (SURG 6628), University of Colorado at Denver School of Medicine, 2009-present
  - a. A course for second year medical students (SURG 6626 is a prerequisite) that introduces the student to flight medicine and includes clinical time riding in a helicopter as well as fixed wing airplane transport
7. Instructor, Introduction to Traumatic Emergencies, (SURG 6623) University of Colorado School of Medicine, 1999-present
8. Lecturer, Injury Epidemiology and Control (PRMD 6637), University of Colorado School of Medicine, 2003
9. Instructor, Emergency Medicine at Denver Health Medical Center (SURG 8005), University of Colorado School of Medicine, 1998-present
10. Instructor, Integrated Clinicians Course (ICC) 8005: Preparing for Internship: Reading and Understanding EKGs
11. Instructor, Integrated Clinicians Course (ICC) IDPT 7003: Management of Trauma, University of Colorado School of Medicine, 2011
12. Instructor, Integrated Clinicians Course (ICC) IDPT 7004: Management of Trauma, University of Colorado School of Medicine, 2010. Lecturer and small group leader
13. Instructor, Integrated Clinicians Course (ICC) IDPT 7004: Management of Trauma, University of Colorado School of Medicine, 2009. Lecturer and small group leader
14. Member, Medical Staff Executive Committee, 2009-present
15. Member, Denver Health Executive Committee for Patient Safety and Quality, 2006-present
16. Council Member, Colorado's Mile High Regional Emergency and Trauma Advisory Council (RETAC), Denver County appointed representative, 2000-present
17. Committee chair, Destination and Diversion committee, Mile High RETAC 2002-present
18. Member, State EMS Formulary Task Force, 2006 – 2009
19. Member, Pediatric Trauma Committee, 2006-present
20. Member, Rocky Mountain Center for Medical Response (RMCMR), 2002-present
21. Member, Colorado State Advisory Council on Emergency Medical Services, 1998-2000
22. Ute Mountain Ute EMS Program medical director, 1994-1996
23. Steering Committee member, Denver Health Residency in Emergency Medicine, 1998-present
24. Denver Health Residency in Emergency Medicine Compliance Committee, 2006-present
25. Pharmacy and Therapeutics Committee member, Denver Health Medical Center, 1998-2006

26. EMS Education committee member, Denver Health Medical Center, 1998-present
27. Safety Committee member, Denver Health Medical Center, 1998-2001
28. Residency Advisory Committee, Denver Health Medical Center Residency in Emergency Medicine, 1998-present
29. Moderator, Case Presentations, Rocky Mountain Critical Care Transport Conference, May, 2003
30. Instructor, Difficult Airway Lab, Rocky Mountain Critical Care Transport Conference, May, 2003
31. Trauma Center Site Surveyor, State of Florida Department of Health and Rehabilitative Services, Office of Emergency Medical Services, 2003-present
32. Member, Denver EMS Council, 1998-present
33. Member, Denver Metro Physician Advisors, 1999-present
34. Medical Expert and Faculty, Boulder Trial Academy, International Association of Defense Counsel, 1998-2002
35. Member, Medical Advisory Group (MAG), to the Colorado State EMS Director, 2003-2008
36. Transfusion Committee member, St. Joseph Mercy Hospital, Ann Arbor, Michigan. 1996-1998

### **Licensure and Board Certification**

Licensure:     1) State of Colorado, 1993-1996, 1998-present  
                  2) State of Michigan, 1996-1998

Board Certification: Emergency Medicine  
                          American Board of Emergency Medicine (1997)  
                          Recertification (2007)

### **Editorial Positions**

1. Section Editor, Trauma, UpToDate, 2009 - present
2. Section Editor, Abstracts  
The Journal of Emergency Medicine, 1999-2002
3. Review Editor, The Journal of Emergency Medicine, 1999-2008
4. Review Editor, Western Journal of Emergency Medicine, 2008 - present
5. Manuscript reviewer, Academic Emergency Medicine, 2003 – present
6. Manuscript reviewer, Critical Care, 2008-present
7. Manuscript reviewer, Patient Safety in Surgery, 2009-present
8. Guest Editor, EM International, Prehospital Care

## Publications:

### Peer Reviewed Journal Articles

1. Shapiro M, Dechert, **Colwell C**, Bartlett R, Rodriguez: Geriatric Trauma: Aggressive Intensive Care Management is Justified. American Surgeon 1994;60(9):695-8
2. **Colwell C**, Pons PT, Blanchet J, Mangino C: Claims Against a Paramedic Ambulance Service: A Ten Year Experience. J Emerg Med 1999, 17(6):999-1002
3. Apfelbaum J, **Colwell C**, Roe E: Precipitous Breech Delivery of Twins: A Case Report. Prehospital Emerg Care 2000; 4(1):78-81
4. Gnadinger CA, **Colwell C**, Knaut AL: Scuba Diving-Induced Pulmonary Edema in a Swimming Pool. J Emerg Med 2001; 21(4):419-421
5. Houry D, **Colwell C**, Ott C: Abdominal Pain in a Child after Blunt Abdominal Trauma: An Unusual Injury. J Emerg Med 2001; 21(3):239-241
6. Barton E, Ramos J, **Colwell C**, Benson J, Bailey J, Dunn W: Intranasal Administration of Naloxone by Paramedics. Prehosp Emerg Care 2002; 6:54-8
7. **Colwell C**, Pons PT, Pi R: Complaints Against an EMS System. J Emerg Med 2003;25(4):403-408
8. **Colwell C**, McVaney K, Haukoos J, Wiebe D, Gravitz C, Dunn W, Bryan T: An Evaluation of Out-of-Hospital Advanced Airway Management in an Urban Setting. Acad Emerg Med 2005; 12(5):417-22
9. McVaney KE, Macht M, **Colwell CB**, Pons PT: Treatment of Suspected Cardiac Ischemia with Aspirin by Paramedics in an Urban Emergency Medical Services System. Prehospital Emerg Care 2005, 9(3):282-284
10. Barton E, **Colwell CB**, Wolfe TR, Fosnocht D, Gravitz C, Bryan T, Dunn W, Benson J, Bailey J: The Efficacy of Intranasal Naloxone as a Needleless Alternative for Treatment of Opiate Overdose in the Prehospital Setting. J Emerg Med 2005;29(3):265-71
11. Levine SD, **Colwell CB**, Pons PT, Gravitz C, Haukoos JS, McVaney KE: How Well do Paramedics Predict Admission to the Hospital? A Prospective Study. J Emerg Med 2006;31(1):1-5
12. **Colwell CB**: Case Studies in Infectious Disease: Travel-Related Infections. Emerg Med 2006;38(10):35-43
13. Bonnett CJ, Peery BN, Cantril SV, Pons PT, Haukoos JS, McVaney KE, **Colwell CB**: Surge capacity: a proposed conceptual framework. Am J Emerg Med 2007;25:297-306.
14. **Colwell C**. Initial evaluation and management of shock in adult trauma. In: UpToDate, Basow DS (Ed), UpToDate, Waltham, MA, 2007 - present
15. Bonnett CJ, **Colwell CB**, Schock T, McVaney KE, Depass C: Task Force St. Bernard: Operational Issues and Medical Management of a National Guard Disaster Response. Prehospital and Disaster Medicine 2007;22(5):440-447
16. **Colwell CB**: Heat Illness. Emerg Med 2008; 40(6): 33-39

17. **Colwell CB**, Cusick JC, Hawkes AP and the Denver Metro Airway Study Group: A prospective study of prehospital airway management in an urban EMS system. Prehosp Emerg Care 2009; 13:304-310
18. **Colwell CB**, Mehler P, Harper J, Cassell L, Vazquez J, Sabel A: Measuring quality in the prehospital care of chest pain patients. Prehospital Emerg Care 2009;13:237-240
19. Kashuk JL, Halperin P, Caspi G, **Colwell CB**, Moore EE: Bomb explosions in acts of terrorism: Evil creativity challenges our trauma systems. J Am Coll Surg 2009; 209(1):134-140
20. Stone SC, Abbott J, McClung CD, **Colwell CB**, Eckstein M, Lowenstein SR: Paramedic knowledge, attitudes, and training in end-of-life care. Prehospital Disaster Medicine 24(6):529-34, Nov-Dec 2009.
21. Gaither JB, Matheson J, Eberhardt A, **Colwell CB**: Tongue engorgement associated with prolonged use of the King-LT laryngeal tube device. Ann Emerg Med, 2009. Ann Emerg Med 2010; 55(4):367-9.
22. Bookman SJ, Eberhardt AM, Gaither JB, **Colwell CB**: Hospital Group Preparation for the 2008 Democratic National Convention. Journal of Homeland Security and Emergency Management 2010; Vol. 7: Iss. 1, Article 16.
23. Haukoos JS, Witt G, Gravitz C, Dean J, Jackson D, Candlin T, Vellman P, Riccio J, Heard K, Kazatomi T, Luyten D, Pineda G, Gunther J, Biltoft J, **Colwell CB**: Out-of-hospital cardiac arrest in Denver, Colorado: Epidemiology and outcomes. Acad Emerg Med 2010; 17(4):391-8.
24. Haukoos JS, Byyny RL, Erickson C, Paulson S, Hopkins E, Sasson C, Bender B, Gravitz C, Vogel JA, **Colwell CB**, Moore EE. Validation and refinement of a rule to predict emergency intervention in adult trauma patients. Ann Emerg Med 2011;58:164-171
25. **Colwell CB**, Eberhardt A. Less Lethal Force. Emergency Medicine Reports 2011, 32(18):1-12
26. Soriya G, McVaney KE, Liao MM, Haukoos JS, Byyny RL, Gravitz C, **Colwell CB**. Safety of prehospital intravenous fentanyl for adult trauma patients. J Trauma Acute Care Surg 2012;72(3):755-59
27. Gudnik MR, Sasson C, Rea TD, Sayre MR, Zhang J, Bobrow BJ, Spaite DW, McNally B, Denninghoff K, Stolz U, Levy M, Barger J, Dunford JV, Sporer K, Salvucci A, Ross D, **Colwell CB**, Turnbull D, Rosenbaum R, Schrank K, Waterman M, Dukes R, Lewis M, Fowler R, Lloyd J, Yancey A, Grubbs E, Lloyd J, Morris J, Boyle S, Johnson T, Wizner C, White M, Braithwaite S, Dyer S, Setnik G, Hassett B, Santor J, Swor B, Chassee T, Lick C, Parrish M, Radde D, Mahoney B, Todd D, Salomone J, Ossman E, Myers B, Garvey L, Camerson J, Slattery D, Ryan J, McMullan J, Keseg D, Leaming J, Sherwood BK, Luther J, Slovis C, Hinchey P, Harrington M, Griswell J, Beeson J, Persse D, Gamber M, Ornato J. Increasing hospital volume is not associated with improved survival in out of hospital cardiac arrest of cardiac etiology. Resuscitation 2012; 83(7):862-8



28. Mascolo M, Trent S, **Colwell CB**, Mehler PS. What the Emergency Department needs to know when caring for your patients with eating disorders. *Int J Eat Disord* 2012;45(8):977-81
29. **Colwell CB**, Bookman S, Johnston J, Roodberg K, Eberhardt AM, McVaney KE, Kashuk J, Moore EE. Medical Preparation for the 2008 Democratic National Convention. *J Trauma Acute Care Surg* 2012 Dec;73(6):1624-8
30. Trent SA, Moreira ME, **Colwell CB**, Mehler P. ED management of patients with eating disorders. *Am J Emerg Med* 2013 May;31(5):859-65
31. French AJ, **Colwell CB**. Atlas of Emergency Ultrasound. *J Trauma Acute Care Surg* 2013;75:919.
32. Cleveland N, **Colwell C**, Douglass E, Hopkins E, Haukoos JS. Motor Vehicle Crash Severity Estimations by Physicians and Prehospital Personnel. *Prehosp Emerg Care* 2014 Epub ahead of print
33. Macht M, Mull AC, McVaney KE, Caruso EH, Johnston JB, Gaither JB, Shupp AM, Marquez KD, Haukoos JS, **Colwell CB**. Comparison of Droperidol and Halperidol for use by paramedics: Assessment of safety and effectiveness. *Prehosp Emerg Care* 2014 (in press).
34. Nassel AF, Root ED, Haukoos JS, McVaney K, **Colwell C**, Robinson J, Eigel B, Magid DJ, Sasson C. Multiple cluster analysis for the identification of high-risk census tracts for out-of-hospital cardiac arrest (OHCA) in Denver, Colorado. *Resuscitation* 2014;85:1667-73
35. Vogel JA, Seleno N, Hopkins E, **Colwell CB**, Gravitz C, Haukoos JS. Denver Emergency Department Trauma Organ Failure Score outperforms traditional methods of risk stratification in trauma. *Am J Emerg Med* 2015;33(10):1440-4
36. Vogel JA, Newgard CD, Holmes JF, Diercks DB, Arens AM, Boatright DH, Bueso A, Gaona SD, Gee KZ, Nelson A, Voros JJ, Moore EE, **Colwell CB**, Haukoos JS; Western Emergency Services Translational Research Network. Validation of the Denver Emergency Department Trauma Organ Failure Score to Predict Post-Injury Multiple Organ Failure. *J Am Coll Surg* 2015;S1072-7515(15)01677-4 Epub ahead of print

### **Invited Articles, Book Chapters, and Editorials**

1. **Colwell C**, Harken A: Cardiac Arrhythmias. In: Markovchick V, Pons P(eds) Emergency Medicine Secrets. Hanley & Belfus, Inc., Philadelphia, PA; 2<sup>nd</sup> Edition, 1999, pp. 119-123
2. Murphy P, **Colwell C**: Prehospital Management of Epiglottitis. *EMS* 2000; 29(1):41-9
3. Murphy P, **Colwell C**: Prehospital Management of Neck Trauma. *EMS* 2000; 29(5):53-71
4. Murphy P, **Colwell C**: Heatwave: Prehospital Management of Heat Related Conditions. *EMS* 2000; 29(6):33-49
5. Murphy P, **Colwell C**: Prehospital Management of Diabetes. *EMS* 2000; 29(10):78-85

6. Murphy P, **Colwell C**, Bryan T: Noncardiac Chest Pain. EMS 2001; 30(4):66-71
7. Murphy P, **Colwell C**: Communication Breakdown: When Medic and Medical Control Don't Agree. Cover Story, EMS 2001 30(5):61-2
8. Murphy P, **Colwell C**, Linder G: Assessment Clues. EMS 2001; 30(7):45-8
9. **Colwell C**, Murphy P, Bryan T: Mechanism of Injury: An Overview Cover Story, EMS 2003; 32(5):52-64
10. **Colwell C**, Harken A: Cardiac Arrhythmias. In: Markovchick V, Pons P(eds) Emergency Medicine Secrets. Hanley & Belfus, Inc., Philadelphia, PA; 3<sup>rd</sup> Edition, 2003, pp. 140-143
11. Kendall J, **Colwell C**: Pericarditis and Myocarditis In: Markovchick V, Pons P (eds) Emergency Medicine Secrets. Hanley & Belfus, Inc., Philadelphia, PA; 3<sup>rd</sup> Edition, 2003, pp. 149-154
12. **Colwell CB**, Murphy P, Bryan T. Prehospital Management of the Pregnant Patient. EMS 2004; 33(3):59-67.
13. **Colwell CB**, Murphy P, Bryan T. Pulseless Electrical Activity. EMS 2004; 33(9):63-8.
14. **Colwell CB**, Murphy P, Bryan T, Nelson S. Psychological Disorders: A General Overview. EMS 2004;33(11):74-83.
15. **Colwell C**: Traumatic Shock In: Harwood-Nuss A, Wolfson A (eds) The Clinical Practice of Emergency Medicine. Lippincott Williams & Wilkins, Philadelphia, PA; 4<sup>th</sup> Edition, 2005; 907-12.
16. **Colwell C**, Murphy P, Bryan T. Pediatric Potpourri: An Overview of Select Pediatric Conditions. EMS 2005;34(7):50-58
17. **Colwell C**, Murphy P, Bryan T. Uncompleted Suicide Attempts. EMS 2005;34(11):73-86
18. Murphy P, **Colwell CB**, Pineda G, Bryan T: Breaking Down Barriers: How EMS providers can communicate with autistic patients. EMS 2006;35(4):84-89
19. Murphy P, **Colwell CB**, Pineda G, Bryan T: Traumatic Amputations. EMS 2006; 35(6):90-96
20. **Colwell CB**, Murphy P, Bryan T: Geriatric Trauma. EMS 2006;35(9):135-140
21. **Colwell CB**: Cardiac Dysrhythmias, Pacemakers, and Implantable Defibrillators In: Markovchick V, Pons P (eds) Emergency Medicine Secrets. Mosby Elsevier, Philadelphia, PA; 4<sup>th</sup> Edition, 2006: 194-204
22. Kendall JL, **Colwell CB**: Pericarditis and Myocarditis In: Markovchick V, Pons P (eds) Emergency Medicine Secrets. Mosby Elsevier, Philadelphia, PA; 4<sup>th</sup> Edition, 2006: 213-218
23. **Colwell CB**: Disasters In: Chappleau W, Pons P (eds) Emergency Medical Technician. Mosby JEMS Elsevier, St. Louis, MO, 2007:708-725
24. **Colwell CB**: Hyperkalemia In: Schaidler J, Hayden SR, Wolfe R, Barkin RM, Rosen P (eds): Rosen and Barkin's 5-Minute Emergency Consult Lippincott Williams & Wilkins, Philadelphia, PA; 3<sup>rd</sup> Edition, 2007: 550-551

25. **Colwell CB:** *High Altitude Illness* In: Schaidler J, Hayden SR, Wolfe R, Barkin RM, Rosen P (eds): Rosen and Barkin's 5-Minute Emergency Consult Lippincott Williams & Wilkins, Philadelphia, PA; 3<sup>rd</sup> Edition, 2007:522-523
26. **Colwell CB:** *Dialysis Complications* In: Schaidler J, Hayden SR, Wolfe R, Barkin RM, Rosen P (eds): Rosen and Barkin's 5-Minute Emergency Consult Lippincott Williams & Wilkins, Philadelphia, PA; 3<sup>rd</sup> Edition, 2007:310-311
27. **Colwell CB:** *Gastroenterology* In: Chapleau W, Burba AC, Pons PT, Page D (eds): The Paramedic McGraw-Hill, New York, NY; 2008:839-861
28. **Colwell CB:** *Lightning and Electrical Injuries* In: Adams JG (Ed): Emergency Medicine Elsevier, Philadelphia, PA, 2008;131:1451
29. Murphy P, **Colwell CB**, Pineda G, Bryan T: *Cerebral hemorrhage. What EMS providers need to know about cerebral anatomy and common forms of cerebral hemorrhage.* EMS 2009; 38(5):46-55
30. **Colwell CB**, Johnston J, Schimpf B, Nieberlein D, Petre B, Bookman S, Robinson J, Jackamore S, Gaither J, Eberhardt A, Benson J, Crowl D. *The response and lessons learned from the crash at Denver International Airport.* JEMS 2009; 34(9):36-45.
31. Murphy P, **Colwell CB**, Pineda G, Bryan T. *Shortness of breath: A review of select conditions.* EMS 2009, 38(7):51-63.
32. **Colwell CB**, Moore EE: *Traumatic Shock* In: Wolfson AB (ed): Harwood-Nuss' Clinical Practice of Emergency Medicine Lippincott Williams & Wilkins, Philadelphia, PA, 5<sup>th</sup> Edition, 2009:142-148
33. **Colwell CB**, Markovchick V: *Radiation Injuries* In: Marx JA, Hockberger RS, Walls RM (eds): Rosen's Emergency Medicine: Concepts and Clinical Practice Mosby Elsevier Philadelphia, PA 7<sup>th</sup> Edition, 2009:1933-1941
34. Murphy P, **Colwell CB**, Pineda G, Bryan T: *Burning issues: By understanding the pathophysiology of burns, providers can give patients their best chance at good outcomes.* EMS 2009, 38(10):83-90.
35. Murphy P, **Colwell CB**, Pineda G, Bryan T: *Abdominal Pain: A review of select conditions.* EMS 2010, 39(1):68-74
36. Murphy P, **Colwell CB**, Pineda G, Bryan T: *A Shocking Call: Prehospital assessment and management of electrical injuries and lightning strikes.* EMS 2010, 39(2):46-53
37. Murphy P, **Colwell CB**, Pineda G, Bryan T: *Shootings: What EMS providers need to know: the assessment and treatment of victims of gunshot wounds.* EMS 2010, 39(4):37-45
38. **Colwell CB:** *Managing the Acutely Agitated Patient.* EMS Innovations 2010 EMS 2010, 39(7):I-8-I-9
39. Soriya G, **Colwell CB:** *Basic Life Support.* In: Moore EE (ed): Encyclopedia of Intensive Care Medicine Springer, 1<sup>st</sup> Edition, 2010
40. Soriya G, **Colwell CB:** *Emergency Medical Services* In: Moore EE (ed): Encyclopedia of Intensive Care Medicine Springer, 1<sup>st</sup> Edition, 2010
41. Mull A, **Colwell CB:** *Prehospital Care* In: Moore EE (ed): Encyclopedia of Intensive Care Medicine Springer, 1<sup>st</sup> Edition, 2010
42. Murphy P, **Colwell CB**, Pineda G, Bryan T: *Hemochromatosis.* EMS 2010; 39(10):53-57

43. **Colwell CB:** *Hyperkalemia* In: Schaidler JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin AZ, Shayne P, Rosen P (eds): Rosen and Barkin's 5-Minute Emergency Medicine Consult Lippincott Williams & Wilkins, a Wolters Kluwer, PA 4<sup>th</sup> Edition, 2011: 552-553
44. **Colwell CB:** *High Altitude Illness* In: Schaidler JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin AZ, Shayne P, Rosen P (eds): Rosen and Barkin's 5-Minute Emergency Medicine Consult Lippincott Williams & Wilkins, Wolters Kluwer, PA 4<sup>th</sup> Edition, 2011: 524-525
45. **Colwell CB:** *Dialysis Complications* In: Schaidler JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin AZ, Shayne P, Rosen P (eds): Rosen and Barkin's 5-Minute Emergency Medicine Consult Lippincott Williams & Wilkins, a Wolters Kluwer, PA 4<sup>th</sup> Edition, 2011: 310-311
46. **Colwell CB, Mull AC:** *Cardiac Dysrhythmias, Pacemakers, and Implantable Defibrillators*. In: Markovchick VJ, Pons PT, Bakes KM (eds): Emergency Medicine Secrets Elsevier Mosby, St. Louis MO 5<sup>th</sup> Edition, 2011:208-218
47. Kendall JL, **Colwell CB:** *Pericarditis and Myocarditis* In: Markovchick VJ, Pons PT, Bakes KM (eds): Emergency Medicine Secrets Elsevier Mosby, St. Louis MO 5<sup>th</sup> Edition, 2011:229-234
48. **Colwell CB, Soriya G:** *Heat Illness* In: Markovchick VJ, Pons PT, Bakes KM (eds): Emergency Medicine Secrets Elsevier Mosby, St. Louis MO 5<sup>th</sup> Edition, 2011:407-410
49. Murphy P, **Colwell CB, Pineda G:** *Smoke Inhalation*. EMS World 2011; May issue
50. Eberhardt A, **Colwell CB:** *Prehospital Care*. In: Legome E, Shockley LW (eds): Trauma: A Comprehensive Emergency Medicine Approach Cambridge University Press, New York, 2011:653-662
51. Crowl D, **Colwell CB, Mettera CJ:** *Double trouble: Don't get fooled when assessing the pregnant trauma patient*. JEMS 2011; Sept:52-59
52. Mehler PS, **Colwell CB, Stahel PF:** *A structured approach to improving patient safety: Lessons from a public safety-net system*. Patient Safety in Surgery 2011; 5:32 (1 December, 2011)
53. Murphy P, **Colwell CB, Pineda G:** *Understanding the Trauma Triad of Death*. EMS World 2012, 41(2):44-51
54. Thomas SH, Colwell CB, Deslandes J, Dyer S, Goodloe JM. Prehospital Care. Emerg Med International 2012, Article ID 965480
55. **Colwell CB.** *On-Line Medical Direction*. In: Pons PT, Markovchick VJ (eds): Prehospital Care: Pearls and Pitfalls. People's Medical Publishing House, Shelton, CT, 2012:79-82
56. **Colwell CB.** *Incident Management*. In: Pons PT, Markovchick VJ (eds): Prehospital Care: Pearls and Pitfalls. People's Medical Publishing House, Shelton, CT, 2012:137-45
57. **Colwell CB.** *Chest Pain*. In: Pons PT, Markovchick VJ (eds): Prehospital Care: Pearls and Pitfalls. People's Medical Publishing House, Shelton, CT, 2012:239-44

58. Prehospital Care. Emergency Medicine International Special Edition. Thomas SH, Colwell C, Deslandes JC, Dyer S, Goodloe JM, Guest Editors. Hindawi Publishing Corp, 2012
59. Thomas SH, Colwell C, Deslandes JC, Dyer S, Goodloe JM. Prehospital Care. Emergency Medicine International 2012; article ID 965480
60. Colwell CB. *Lightning and Electrical Injuries*. In: Adams (ed): Emergency Medicine: Clinical Essentials Elsevier Saunders, Philadelphia, PA 2<sup>nd</sup> Edition 2013:1148-52
61. Colwell CB. Book review: *An Introduction to Clinical Emergency Medicine, 2<sup>nd</sup> ed.* In: J Trauma and Acute Care Surgery 2013 Jan;74(1):344
62. Colwell CB. *Radiation Injuries* In: Marx (ed): Rosen's Emergency Medicine: Concepts and Clinical Practice Elsevier Saunders, Philadelphia, PA 8<sup>th</sup> Edition, 2014:1945-53
63. Murphy P, Colwell C, Pineda G. *All You Need to Know About Bariatrics*. EMS World 2014, 43(3):26-35
64. Colwell CB, Moore EE. *Traumatic Shock*. In: Wolfson AB (ed): Harwood Nuss' Clinical Practice of Emergency Medicine Lippincott Williams & Wilkins, Philadelphia, PA, 6th Edition, 2014:137-142
65. Colwell CB. *High Altitude Illness* In: Schaidler et al (ed): Rosen and Barkin's 5- Minute Emergency Medicine Consult. Wolters Kluwer, Philadelphia, PA 5<sup>th</sup> Edition, 2015:534-5
66. Colwell CB. *Dialysis Complications* In: Schaidler et al (ed): Rosen and Barkin's 5- Minute Emergency Medicine Consult. Wolters Kluwer, Philadelphia, PA 5th Edition, 2015: 312-3
67. Colwell CB. *Hyperkalemia* In: Schaidler et al (ed): Rosen and Barkin's 5- Minute Emergency Medicine Consult. Wolters Kluwer, Philadelphia, PA 5th Edition, 2015: 562-3

### Letters to the Editor

1. Colwell C, Markovchick V, Pons P: **Drug Concern** J. Emerg. Med. Services 2000;25:10
2. Abboud P, Colwell C: **Critically reappraising the literature-driven practice of analgesia administration for acute abdominal pain in the emergency room prior to surgical evaluation.** Am J Surg, 2004; Jul 188(1):102-3, Author reply 103-4
3. Colwell C, McVaney K, Haukoos J: Reply to: **Out-of-hospital Endotracheal Intubation-It's Time to Stop Pretending that Problems Don't Exist.** Acad Emerg Med 2005;12(12):1245-6
4. Colwell C: **Reply to: EMS Response to Columbine: Lessons Learned.** The Internet Journal of Rescue and Disaster Medicine 2006; Vol. 5, No. 2

## Abstracts Presented

1. **Colwell C, Wolfe R, Moore E, Cairns C: Differences in Hemodynamic Data Between Geriatric and Younger Adult Trauma Patients.** Poster Presentation; 21<sup>st</sup> Annual Rocky Mountain Conference on Emergency Medicine and Nursing, Jan. 30<sup>th</sup>, 1995
2. **Colwell C, Wolfe R, Moore E, Cairns C: Differences in Hemodynamic Data Between Geriatric and Younger Adult Trauma Patients.** Presented as an oral presentation at the 25<sup>th</sup> Annual Meeting of the Society for Academic Emergency Medicine, Denver, Colorado, May, 1995.
3. Branney S, **Colwell C**, Aschenbrenner J, Pons P: **Safety of Droperidol for Sedating Out-of-control ED Patients.** Presented at the Annual Meeting of the Society for Academic Emergency Medicine, Denver, Colorado, 1996. (Acad Emerg Med 1996; 3:527)
4. Barton E, Ramos J, **Colwell C: Intranasal Administration of Naloxone by Paramedics: Could this be a better practice?** Presented at American College of Emergency Physicians (ACEP) Research Forum, October 2001. (Ann Emerg Med 2001; 38(4):Supplement p. S18)
5. Barton E, **Colwell C**, Ramos J: **Intranasal Administration of Naloxone by Paramedics: Could this be a better practice?** Presented at The First Mediterranean Emergency Medicine Congress, Stressa Convention Center, Stressa, Italy, September 2001
6. Levine S, **Colwell C**, Pons P, Gravitz C, Haukoos J: **How well do paramedics predict admission to the hospital?** Presented at AAEM Resident Research Competition, San Diego, California, February 2005
7. **Colwell C**, Mehler P, Sabel A, Harper J, Johnson L, Cassell L: **Determining the Quality of Comprehensive Care for Non-Traumatic Chest Pain through a Composite Measure.** Presented at SAEM Western Regional Research Forum, Portland, Oregon, March, 2007.
8. **Colwell C**, Mehler P, Sabel A, Harper J, Johnson L, Cassell L. **Analysis of Ambulance Response for Patients with Medical Chest Pain Based on the Severity of Potential Cardiac Symptoms.** Presented at SAEM Western Regional Research Forum, Portland, Oregon, March 2007.
9. Haukoos JA, Witt G, **Colwell C. The Epidemiology of Out-of-Hospital Cardiac Arrest in Denver, Colorado. Results from Phase I of the Denver Cardiac Arrest Registry.** Presented at SAEM Annual Meeting, May 30<sup>th</sup>, 2008, Washington D.C.
10. Kashuk JL, Moore EE, Barnett C, Berlew CC, **Colwell CB**, Brody A, Johnson J, Biffi W, Sabel AL. **Implementation of an in-hospital mass casualty incident (MCI) plan based upon the Israeli model: The challenges of shifting to the battlefield mentality in the civilian setting.** International Preparedness & Response to Emergencies & Disasters Conference. Tel –Aviv, Israel. January 11<sup>th</sup>, 2010.

11. Moore EE, Kashuk JL, **Colwell CB**, Barnett C, Burlew CC, Biffl WL, Johnson JL, Brody A, Sabel A. **Live victim volunteers (LVV) enhance performance improvement for in-hospital mass casualty incident (MCI) drills: listen to the patient!** International Preparedness & Response to Emergencies and Disasters (IPRED). Tel-Aviv, Israel. January 12<sup>th</sup>, 2010.
12. Barnett C, Kashuk J, Moore EE, **Colwell CB**, Johnson JL, Biffl W, Burlew CC, Brody A, Sabel A. **Notification and Communication: Critical initial steps in mass casualty incident drills.** International Preparedness & Response to Emergencies and Disasters (IPRED). January 12<sup>th</sup>, 2010. Tel Aviv, Israel
13. **Colwell CB**, Moore EE, Kashuk J, Robinson J, Bookman S. **Lessons learned from the 2008 Democratic National Convention.** International Preparedness & Response to Emergencies and Disasters (IPRED). Tel-Aviv, Israel. January 12<sup>th</sup>, 2010.
14. Soriya G, **McVaney K, Liao M, Haukoos J, Byyny R, Colwell C.** **Safety of pre-hospital single-dose fentanyl in adult trauma patients.** 13<sup>th</sup> Annual Western Regional Society for Academic Emergency Medicine Meeting, Sonoma, CA, 2010 (Oral).
15. Soriya G, **McVaney K, Liao M, Haukoos J, Byyny R, Colwell C.** **Safety of pre-hospital single-dose fentanyl in adult trauma patients.** Society for Academic Emergency Medicine Annual Meeting, Scottsdale, Phoenix, AZ, 2010 (Poster).
16. Sasson C, **Colwell C**, McNally B, Haukoos J. **“Associations Between Individual-level and Census Tract-level Characteristics and Performance of Bystander CPR Among Patients Who Experience Out-of-Hospital Cardiac Arrest.”** Oral Presentation American Heart Association November 2010.
17. Sasson C, **Colwell C**, McNally B, Dunford J, Haukoos J. **“Using the Cardiac Arrest Registry to Enhance Survival to Examine Regional Variation in the Utilization of Automated External Defibrillators.”** Poster Presentation Resuscitation Science Symposium American Heart Association November 2010.
18. Macht M, **Colwell CB**, Mull A, Johnston J B, Shupp A, Marquez KD, Gaither J, Haukoos J. **“Droperidol versus haloperidol for prehospital sedation of acutely agitated patients.”** Poster presentation at NAEMSP 2012 Annual Meeting, January 2012
19. Nassel A, Haukoos J, McNally B, **Colwell CB**, Severyn F, Sasson C. **“Using Geographic Information Systems and Cluster Analysis to identify Neighborhoods with High Out of Hospital Cardiac Arrest Incidence and Low Bystander Cardiopulmonary Resuscitation Prevalence in Denver, Colorado.”** Oral Presentation, Society of Academic Emergency Medicine Annual Meeting, May 2012, Chicago, Illinois. Acad Emerg Med 2012 19(4) Suppl.1, #513:S271-272
20. Vogel JA, Arens A, Johnson C, Ruygrok M, Smalley C, Byyny R, **Colwell CB**, Haukoos J. **“Prehospital and Emergency Department Intubation is Associated with Increased Mortality in Patients with Moderate to Severe Traumatic Brain Injury”.** Oral Presentation, Society of Academic Emergency

- Medicine Annual Meeting, May 2012, Chicago, Illinois. Acad Emerg Med 2012 19(4) Suppl. 1, #517:S273-S274
21. Vogel JA, Sasson C, Hopkins E, **Colwell CB**, Haukoos J. “Systems-Wide Cardiac Arrest Interventions Improve Neurologic Survival after Out-of-Hospital Cardiac Arrest”. Moderated Poster Presentation, Society of Academic Emergency Medicine Annual Meeting, May 2012, Chicago, Illinois. Acad Emerg Med 2012 19(4) Suppl. 1, #615:S324
  22. Muramoto S, **Colwell C**, Mehler P, Bakes K. “Cost analysis of a hospital-based violence intervention program: At-risk intervention and mentoring program (AIM).” Poster presentation at 25<sup>th</sup> Annual Interprofessional Research and EBP Symposium, March 2014, Denver, CO.

**Invited Lectures, Presentations, and Visiting Professorships:**

1. Hypertensive Emergencies  
Interdepartmental Grand Rounds, University of Michigan  
Ann Arbor, Michigan, May 1997
2. Pediatric Meningitis  
Emergency Medicine Grand Rounds, University of Michigan  
Ann Arbor, Michigan, October, 1997
3. Antibiotic Use in the Emergency Department  
Attending Lecture in Emergency Medicine  
Denver Health Medical Center, Denver, Colorado, October 1998
4. The Myth of EMS Response Times  
26<sup>th</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
Breckenridge, Colorado, July 1999
5. Geriatric Trauma  
26<sup>th</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
Breckenridge, Colorado, July 1999
6. Mass Casualty and Disaster Management: The Columbine Shootings  
Multidisciplinary Trauma Conference, Denver Health Medical Center  
Denver, Colorado, September 1999
7. Mass Casualty and Disaster Management: The Columbine Shootings  
Northeast EMS Conference  
Boston, Massachusetts, September 1999
8. Mass Casualty and Disaster Management: The Columbine Shootings  
Keynote Address, Winnipeg EMS Conference  
Winnipeg, Canada, October 1999
9. Mass Casualty and Disaster Management  
Grand Rounds  
Harvard Medical School and Harvard Affiliated Emergency Medicine  
Residency  
October 26<sup>th</sup>, 1999  
Boston, Massachusetts
10. Mass Casualty and Disaster Management: The Columbine Shootings  
Pediatric Emergency Care Conference



Grand Rapids, Michigan, March 2000

11. Geriatric Trauma  
Trauma Care Appreciation Day  
Denver, Colorado, May 2000
12. Mass Casualty and Disaster Management: The Columbine Shootings  
Fifth International Conference on Pediatric Trauma  
Beaver Creek, Colorado, June 2000
13. Complaints Against EMS  
27<sup>th</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
Steamboat, Colorado, July 2000
14. Mass Casualty and Disaster Management: The Columbine Shootings  
Sixth Annual Trauma Symposium, Cleveland Clinic Health System  
Cleveland, Ohio, October 2000
15. Mass Casualty and Disaster Management: The Columbine Shootings  
EMS TEST Conference  
Columbus, Georgia, October 2000
16. Myocardial Infarction  
Colorado State EMS Conference 2000  
Breckenridge, Colorado, October 2000
17. Hypothermia  
Colorado State EMS Conference 2000  
Breckenridge, Colorado, October 2000
18. Complaints Against EMS  
Colorado State EMS Conference 2000  
Breckenridge, Colorado, October 2000
19. Hypothermia  
Rocky Mountain Winter Trauma and Emergency Medicine Conference  
Copper Mountain, Colorado, January 2001
20. Mechanism of Injury  
Grand Rounds, Longmont Community Hospital  
Longmont, Colorado, March 2001
21. Stabilization of the Trauma Patient  
Trauma Care Appreciation Day, Denver Health Medical Center  
Denver, Colorado, April 2001
22. Mass Casualty and Disaster Management: The Columbine Shootings  
El Paso EMS Conference  
El Paso, Texas, September 2001
23. Mass Casualty and Disaster Management: The Columbine Shootings  
Memorial Medical Center Trauma Conference  
Johnstown, Pennsylvania, October 2001
24. Mechanism of Injury  
Colorado State EMS Conference 2001  
Breckenridge, Colorado, October 2001
25. Mass Casualty and Disaster Management: The Columbine Shootings  
Massachusetts EMS Conference  
Worcester, Massachusetts, December 2001

26. Mass Casualty and Disaster Management: The Columbine Shootings  
Sierra-Cascade Trauma Society  
Crested Butte, CO, February, 2002
27. Mass Casualty and Disaster Management: The Columbine Shootings  
Emergency Medicine Grand Rounds, University of Massachusetts  
Worcester, Massachusetts, March 2002
28. Mass Casualty and Disaster Management: The Columbine Shootings  
Multidisciplinary Trauma Conference, Denver Health Medical Center  
Denver, Colorado, March 2002
29. Mass Casualty and Disaster Management: The Columbine Shootings  
Grand Rounds, Day Kimball Hospital  
Putnam, Connecticut, May 2002
30. Mass Casualty and Disaster Management: The Columbine Shootings  
Grand Rounds, Legacy Emanuel Hospital & Health Center  
Portland, Oregon, June 2002
31. Mass Casualty and Disaster Management: The Columbine Shootings  
Trauma Grand Rounds, Scripps Memorial Hospital  
La Jolla, California, September 2002
32. High Altitude Illness  
Annual Meeting, Sierra Cascade Trauma Society  
Vail, Colorado, January 2003
33. ALS in Trauma: Should We Even Bother?  
30<sup>th</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
Breckenridge, Colorado, August 2003
34. Hypothermia  
30<sup>th</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
Breckenridge, Colorado, August 2003
35. Research in EMS  
Grand Rounds, Denver Paramedic Division  
Denver, Colorado September, 2003
36. High Altitude Illness  
Colorado State EMS Conference 2003  
Keystone, Colorado, October, 2003
37. Controversies in EMS  
Colorado State EMS Conference 2003  
Keystone, Colorado, October 2003
38. Hypothermia  
Sierra Cascade Trauma Society, 2004  
Aspen, Colorado, February 9, 2004
39. Current Research in Prehospital Care  
Rocky Mountain Critical Care Transport Conference  
Denver, Colorado, May 6<sup>th</sup>, 2004
40. Blood Substitutes in the Field  
Clinical Conference on Pre-Hospital Emergency Care, 2004  
Orlando, Florida, July 10<sup>th</sup>, 2004
41. Management of Potential C-spine Injuries: Clearance and Beyond.

- 31<sup>st</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
Copper Mtn, Colorado. July 18<sup>th</sup>, 2004
41. Mass Casualty and Disaster Management: The Columbine Shootings.  
Grand Rounds, North Colorado Medical Center  
Greeley, Colorado. September 14, 2004
42. Research in EMS and Trauma  
12<sup>th</sup> Annual EMS and Trauma Grand Rounds Conference  
Aurora, Colorado. September 15, 2004
43. Blood Substitutes in the Field: The Prehospital Trials  
2004 Colorado State EMS Conference  
Keystone, Colorado. November 5<sup>th</sup>, 2004
44. Cadaver Anatomy Lab: Dissection and Procedure Review on a Human Cadaver. Preconference workshop, 2004 Colorado State EMS Conference  
Keystone, Colorado. November 5<sup>th</sup>, 2004
45. Prehospital Management of Trauma  
32<sup>nd</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
Breckenridge, Colorado. June 14<sup>th</sup>, 2005
46. Difficult Airway Lecture/Lab  
32<sup>nd</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
Breckenridge, Colorado. June 15<sup>th</sup>, 2005
47. Bleeding Disorders  
32<sup>nd</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
Breckenridge, Colorado. June 15<sup>th</sup>, 2005
48. Travel-Related Infectious Disease  
ACEP Scientific Assembly 2005  
September 28<sup>th</sup>, Washington D.C.
49. The Hot Joint  
ACEP Scientific Assembly 2005  
September 29<sup>th</sup>, Washington D.C.
50. Mass Casualty and Disaster Management  
Trauma and Critical Care Conference  
San Juan Regional Medical Center, Farmington, New Mexico  
February 18<sup>th</sup>, 2006
51. Dialysis Related Emergencies  
33<sup>rd</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
Breckenridge, Colorado. June 14<sup>th</sup>, 2006
52. Show Me Where it Hurts: Pain Management in the Field  
33<sup>rd</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
Breckenridge, Colorado. June 15<sup>th</sup>, 2006
53. Environmental Emergencies  
2006 Rocky Mountain Rural Trauma Symposium  
September 14, 2006. Billings, Montana.
54. Drugs of Abuse  
2006 Rocky Mountain Rural Trauma Symposium  
September 15, 2006. Billings, Montana.
55. Cadaver Anatomy Lab: Dissection and Procedure Review on a Human

- Cadaver. Preconference workshop, 2006 Colorado State EMS Conference  
Keystone, Colorado.
56. Dialysis-Related Emergencies  
2006 Colorado State EMS Conference  
November 3<sup>rd</sup>, 2006, Keystone, Colorado
57. High-Altitude Illness  
2006 Colorado State EMS Conference  
November 3<sup>rd</sup>, 2006. Keystone, Colorado
58. Drugs of Abuse  
34<sup>th</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
Breckenridge, Colorado. June 20<sup>th</sup>, 2007
59. Environmental Emergencies  
34<sup>th</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
Breckenridge, Colorado. June 22<sup>th</sup>, 2007
60. Ultrasound Use in the Acutely Traumatized Patient  
Instuctor, Ultrasound Workshop  
34<sup>th</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
Breckenridge, Colorado. June 22<sup>th</sup>, 2007
61. Jigawatts: Back to the Future of Electrical Injuries  
American College of Emergency Physicians - Scientific Assembly,  
October 8-11, 2007. Seattle, Washington
62. What's Hot, What's Not: Hypo to Hyperthermia, and All Things in Between  
American College of Emergency Physicians - Scientific Assembly,  
October 8-11, 2007. Seattle, Washington
63. Environmental Emergencies  
Colorado State EMS Conference, November 8<sup>th</sup>-11<sup>th</sup>, 2007  
Keystone, Colorado
64. Cadaver Anatomy Lab: Dissection and Procedure Review.  
Colorado State EMS Conference 2007 – Pre-conference Workshop  
Keystone, Colorado
65. Drugs of Abuse  
Colorado Society of Osteopathic Medicine: The Medical “Home  
Improvements” Course. February 24<sup>th</sup>, 2008  
Keystone, Colorado
66. Initial Evaluation of the Trauma Patient  
Colorado Society of Osteopathic Medicine: The Medical “Home  
Improvements” Course. February 24<sup>th</sup>, 2008  
Keystone, Colorado
67. Geriatric Trauma  
35<sup>th</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
June 25<sup>th</sup>, 2008  
Breckenridge, CO
68. What's Hot, What's Not: Hypo to Hyperthemia and All Things in Between  
ACEP Scientific Assembly 2008, October 28<sup>th</sup>  
Chicago, IL
69. Triage Out Debate: Efficient or Unethical?

- ACEP Scientific Assembly 2008, October 28<sup>th</sup>  
Chicago, IL
70. Update in EMS Literature: What's Hot and What's Not  
ACEP Scientific Assembly 2008, October 29<sup>th</sup>  
Chicago, IL
  71. Cadaver Dissection Lab  
2008 Colorado State EMS Conference, November 6<sup>th</sup>  
Breckenridge, CO
  72. Geriatric Trauma  
2008 Colorado State EMS Conference, November 7<sup>th</sup>  
Breckenridge, CO
  73. Lessons Learned from the DNC  
Colorado Front Range MMRS Hospital Response to a Mass Casualty  
Incident, December 8<sup>th</sup>, 2008  
Denver, CO
  74. Lessons Learned from the DNC  
The EMS State of the Sciences Conference: A Gathering of Eagles 2009  
February 20<sup>th</sup>, 2009  
Dallas, TX
  75. Nightmare EMS Communications  
The EMS State of the Sciences Conference: A Gathering of Eagles 2009  
February 21<sup>st</sup>, 2009  
Dallas, TX
  76. Mass Casualty and Disaster Management  
Trauma Perspectives 2009 (4/10/09)  
Durango, CO
  77. Airway Management and Pitfalls  
Trauma Perspectives 2009 (4/10/09)  
Durango, CO
  78. Trauma Management  
Integrated Clinicians Course (ICC) 7004  
University of Colorado at Denver School of Medicine  
May 5<sup>th</sup>, 2009
  79. EMS Update, 2009  
Grand Rounds, Beth Israel/Deaconess Department of Emergency Medicine  
May 6<sup>th</sup>, 2009
  80. EMS Update – Panel Discussion  
36<sup>th</sup> Annual Trauma and Emergency Medicine Conference  
June 18<sup>th</sup> 2009, Breckenridge, CO
  81. Trauma in Pregnancy  
36<sup>th</sup> Annual Trauma and Emergency Medicine Conference  
June 19<sup>th</sup> 2009, Breckenridge, CO
  82. Cadaver Lab: Anatomical Dissection  
2009 Colorado State EMS Conference  
November 5<sup>th</sup>, Keystone, Colorado
  83. Trauma in Pregnancy

- 2009 Colorado State EMS Conference  
November 6<sup>th</sup>, Keystone, Colorado
84. Update in EMS Literature: What's Hot and What's Not  
2009 Colorado State EMS Conference  
November 6<sup>th</sup>, Keystone, Colorado
85. Lessons Learned from the DNC  
International Preparedness and Response to Emergencies and Disasters  
(IPRED)  
January 12<sup>th</sup> 2010  
Tel Aviv, Israel
86. Geriatric Trauma  
Second Annual BCFFA EMS Conference  
January 23<sup>rd</sup> 2010, Boulder, Colorado
87. Pharmaceutical Restraints: A New Medication Approach to the Agitated Patient  
The EMS State of the Sciences Conference: A Gathering of Eagles 2010  
February 26<sup>th</sup>, 2010  
Dallas, Tx
88. Transfer of the Rural Trauma Patient  
Second Annual Western Colorado Trauma Conference  
May 21<sup>st</sup> 2010, Delta, Colorado
89. Moderator, EMS Medical Director Panel: "Refusal of Care in the Prehospital Setting"  
37<sup>th</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
June 17<sup>th</sup> 2010, Breckenridge, Colorado
90. Critical Issues in Triage  
37<sup>th</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
June 18<sup>th</sup> 2010, Breckenridge, Colorado
91. Field Triage Guidelines: State of the Art or State of the Science?  
ACEP Scientific Assembly 2010  
September 28<sup>th</sup>, Las Vegas, Nevada
92. Less Lethal Force: An Emerging Problem in Prehospital Care  
ACEP Scientific Assembly 2010  
September 29<sup>th</sup>, Las Vegas, Nevada
93. Trauma Case Panel: Stump the Experts  
Carlo Rosen (Moderator), Christopher B. Colwell MD, John Fildes MD, Julie A. Mayglothling MD.  
ACEP Scientific Assembly 2010  
September 29<sup>th</sup>, Las Vegas, Nevada
94. Critical Issues in Triage  
Trauma and Critical Care Conference  
October 22<sup>nd</sup>, 2010  
Durango, Colorado
95. Trauma Panel Case Review  
Christopher B. Colwell, Moderator  
October 23<sup>rd</sup>, 2010

- Durango, Colorado
96. Lightning and Electrical Emergencies  
Trauma and Critical Care Conference  
October 23<sup>rd</sup>, 2010  
Durango, Colorado
  97. Cadaver Dissection Lab  
Colorado State EMS Conference 2010  
November 4<sup>th</sup>, 2010  
Keystone, Colorado
  98. Accidental Hyper And Hypothermia And All Things In Between  
Colorado State EMS Conference 2010  
November 5<sup>th</sup>, 2010  
Keystone, Colorado
  99. Biophone Calls: The Good, The Bad, And The Ugly  
Colorado State EMS Conference 2010  
November 5<sup>th</sup>, 2010  
Keystone, Colorado
  100. Geocoding Cardiac Arrest in Denver  
ECCU 2010 (Emergency Cardiac Care Update)  
December 8<sup>th</sup>, 2010  
San Diego, California
  101. Management of the Agitated Patient  
ECCU 2010 (Emergency Cardiac Care Update)  
December 9<sup>th</sup>, 2010  
San Diego, California
  102. The Nose Knows: Intranasal Medication Options are Growing  
EMS State of the Sciences: A Gathering of Eagles XIII 2011  
February 26<sup>th</sup>, 2011  
UT Southwestern Medical Center, Dallas, Texas
  103. Beyond Agitated Delirium: Dealing with the Issue of In-Custody Deaths  
The EMS State of the Sciences: A Gathering of Eagles XIII 2011  
February 26<sup>th</sup>, 2011  
UT Southwestern Medical Center, Dallas, Texas
  104. ED Operations 101: Follow the Money  
Council of Emergency Medicine Residency Directors (CORD) Academic  
Assembly 2011 (March 4<sup>th</sup>)  
San Diego, California
  105. CPR, Defibrillation, and Drugs: What is the right VF mix?  
EMS Regional Conference: Resuscitation Excellence  
May 15<sup>th</sup>, 2011  
New York, New York
  106. We Don't Need No Stinking Breaths! Compressions Only Pre-Arrival  
Instructions.  
EMS Regional Conference: Resuscitation Excellence  
May 15<sup>th</sup>, 2011  
New York, New York

107. Moderator – Panel Discussion: Optimizing Colorado’s Trauma System  
38th Annual Rocky Mountain Trauma and Emergency Medicine Conference  
June 22<sup>nd</sup>, 2011  
Breckenridge, Colorado
108. Pitfalls in Trauma Care  
38<sup>th</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
June 24<sup>th</sup>, 2011  
Breckenridge, Colorado
109. Deleterious Delirium Deliberations: Modern Pitfall is Managing Agitated EMS Patients  
Advanced EMS Practitioner’s Forum and Workshop  
ACEP Scientific Assembly  
October 14<sup>th</sup>, 2011  
San Francisco, California
110. Certifiable Behaviors: Preparing for EMS Subspecialty Board Certification  
Advance EMS Practitioner’s Forum and Workshop  
ACEP Scientific Assembly  
October 14<sup>th</sup>, 2011  
San Francisco, California
111. Cadaver Dissection and Anatomy Lab  
Colorado State EMS Conference 2011  
November 3<sup>rd</sup>, 2011  
Keystone, Colorado
112. On the Wings of Eagles: Hot Topics in EMS  
Colorado State EMS Conference 2011  
November 4<sup>th</sup>, 2011  
Keystone, Colorado
113. Droperidol for Agitation  
Advanced Topics in Medical Direction  
NAEMSP National Meeting, 2012  
January 11<sup>th</sup>, 2012  
Tucson, Arizona
114. Trauma in Pregnancy  
Children’s Hospital EMS Conference  
Aurora, Colorado  
January 20<sup>th</sup>, 2012
115. Withdrawing Support: A Prehospital Protocol for Alcohol Withdrawal  
EMS State of the Science: A Gathering of Eagles XIV  
February 24<sup>th</sup>, 2012  
Dallas, Texas
116. A Sanguine Approach: The Use of Blood Products and Substitutes in the Field  
EMS State of the Science: A Gathering of Eagles  
February 24<sup>th</sup>, 2012  
Dallas, Texas



117. Blast Injuries  
1<sup>st</sup> Annual Trauma Symposium  
March 15<sup>th</sup>, 2012  
Burlington, Colorado
118. Rural Trauma  
1<sup>st</sup> Annual Trauma Symposium  
March 15<sup>th</sup>, 2012  
Burlington, Colorado
119. Trauma in Pregnancy  
2012 NE Colorado EMS Symposium  
April 21<sup>st</sup>, 2012  
Fort Morgan, Colorado
120. Hemorrhage Control in the Field: Tourniquets and Beyond  
Grand Rounds – St. Mary's and Convent Health Care/Synergy Medical Center  
Hospitals  
May 10<sup>th</sup>, 2012  
Saginaw, Michigan
121. Mass Casualty and Disaster Management  
Invited Lecture – Convent Health Care/Synergy Medical Center  
April 21<sup>st</sup>, 2012  
Saginaw, Michigan
122. Trauma in Pregnancy  
39<sup>th</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
June 29<sup>th</sup>, 2012  
Breckenridge, Colorado
123. Taking it on the QT: What are the Cardiac Effects of Sedation Practices?  
Emergency Cardiac Care Update (ECCU) 2012  
Pre-conference Workshop  
September 12<sup>th</sup>, 2012  
Orlando, Florida
124. Withdrawing Support: Managing Alcohol Withdrawal in the Field  
Emergency Cardiac Care Update (ECCU) 2012  
Pre-conference Workshop  
September 12<sup>th</sup>, 2012  
Orlando, Florida
125. Making Waves Diagnostically: Identifying Subtle Critical Emergencies with Capnography  
Emergency Cardiac Care Update (ECCU) 2012  
Conference Session – Eagles: State of the Science  
September 13<sup>th</sup>, 2012  
Orlando, Florida
126. Two Carbon Fragmentations: A Prehospital Protocol for Ethanol Withdrawal.  
2012 ACEP Advanced EMS Practitioners' Forum and Workshop  
October 7<sup>th</sup>, 2012  
Denver, Colorado

127. How to Break the Ache: 2012 Approaches to Prehospital Pain Control  
2012 ACEP Advanced EMS Practitioners' Forum and Workshop  
October 7<sup>th</sup>, 2012  
Denver, Colorado
128. I'd Scan That! Effective Diagnostic Trauma Imaging  
ACEP Scientific Assembly  
October 9<sup>th</sup>, 2012  
Denver, Colorado
129. Evidence-Based Minor Trauma Management  
ACEP Scientific Assembly  
October 9<sup>th</sup>, 2012  
Denver, Colorado
130. Trauma Talk: The Latest and the Greatest Trauma Literature  
ACEP Scientific Assembly  
October 10<sup>th</sup>, 2012  
Denver, Colorado
131. The Combative, Uncooperative, Arrested, and Threatening Trauma Patient: A Legal, Ethical, and Medical Minefield  
ACEP Scientific Assembly  
October 10<sup>th</sup>, 2012  
Denver, Colorado
132. MCI Medical Response: Are We Prepared?  
Denver Health Critical Care Conference  
October 12<sup>th</sup>, 2012  
Denver, Colorado
133. The Colorado Shootings: Lessons Learned from Mass Casualty Events  
Grand Rounds – Beth Israel/Deaconess Medical Center  
November 7<sup>th</sup>, 2012  
Boston, Massachusetts
134. The Colorado Shootings: Lessons Learned from Mass Casualty Events  
Keynote Speaker: Hillsborough County Medical Association  
November 13<sup>th</sup>, 2012  
Tampa Bay, Florida
135. The Colorado Shootings: Lessons Learned on Disaster Management and Mass Casualty Events  
Grand Rounds: Scripps Memorial Hospital  
December 11<sup>th</sup>, 2012  
La Jolla, California
136. EMS in the Cross-Hairs: The Columbine, Aurora and Safeway Shootings  
EMS State of the Science: A Gathering of Eagles XV  
February 22<sup>nd</sup>, 2013  
Dallas, Texas
137. Oh, What a Relief It Is! Revisiting Pain Medication Use in EMS  
EMS State of the Science: A Gathering of Eagles XV  
February 22<sup>nd</sup>, 2013  
Dallas, Texas

138. ED Operations 101: Follow the Money  
Council of Emergency Medicine Residency Directors (CORD)  
Academic Assembly 2013  
March 7<sup>th</sup>, 2013  
Denver, Colorado
139. Disaster Planning & Response: Lessons Learned from the Colorado Shootings  
Trauma, Critical Care, and Acute Care Surgery 2013 – Medical Disaster Response  
March 17<sup>th</sup>, 2013  
Las Vegas, Nevada
140. Case Management Interactive Session: Practical Issues & Dilemmas in Mass Casualty Preparedness  
Trauma, Critical Care, and Acute Care Surgery 2013 – Medical Disaster Response  
March 17<sup>th</sup>, 2013  
Las Vegas, Nevada
141. Trauma Surgeons Emergency Physicians and Trauma Care  
Trauma, Critical Care, and Acute Care Surgery 2013  
March 20<sup>th</sup>, 2013  
Las Vegas, Nevada
142. Mass Casualty and Disaster Management – The Colorado Shootings  
Visiting Professorship/Grand Rounds  
Southern Illinois University School of Medicine  
April 18<sup>th</sup>, 2013  
Springfield, Illinois
143. Mass Casualty and Disaster Management – The Colorado Shootings  
Sangamon County Medical Society  
April 18<sup>th</sup>, 2013  
Springfield, Illinois
144. Lessons Learned from the Colorado Shootings  
12<sup>th</sup> Annual Trauma Symposium  
Mississippi Coastal Trauma Region  
May 1<sup>st</sup>, 2013  
Biloxi, Mississippi
145. Mass Casualty and Disaster Management – The Colorado Shootings  
Grand Rounds – Indiana University Hospital-Methodist  
May 10<sup>th</sup>, 2013  
Indianapolis, Indiana
146. Prehospital Panel  
Moderator  
40th Annual Rocky Mountain Trauma & Emergency Medicine Conference  
June 27<sup>th</sup>, 2013  
Breckenridge, Colorado
147. Environmental Emergencies

- 40<sup>th</sup> Annual Rocky Mountain Trauma & Emergency Medicine Conference  
June 28<sup>th</sup>, 2013  
Breckenridge, Colorado
148. Lessons Learned from the Colorado Shootings  
43<sup>rd</sup> Annual Wyoming Trauma Conference  
August 16<sup>th</sup>, 2013  
Cheyenne, Wyoming
149. Oh What a Relief It Is: Evolving Trends in Prehospital Pain Management  
IAFF Advanced EMS Practitioners, Chiefs, & Medical Directors Forum  
August 24<sup>th</sup>, 2013  
Denver, Colorado
150. EMS in the Cross-Hairs: The Columbine, Aurora, and Safeway Shootings  
IAFF Advanced EMS Practitioners, Chiefs, & Medical Directors Forum  
August 24<sup>th</sup>, 2013  
Denver, Colorado
151. The Reality of the New Specialty: What Will Be the Impact of the New EMS Boards for Fire?  
IAFF Advanced EMS Practitioners, Chiefs, & Medical Directors Forum  
August 24<sup>th</sup>, 2013  
Denver, Colorado
152. I'd Scan That!: Use of CT Scans in Trauma Care  
Grand Rounds – University of Wisconsin School of Medicine  
August 29<sup>th</sup>, 2013  
Madison, Wisconsin
153. Evidence-Based Minor Trauma Management  
Grand Rounds – University of Wisconsin School of Medicine  
August 29<sup>th</sup>, 2013  
Madison, Wisconsin
154. Mass Casualty and Disaster Management: EMS Lessons from the Colorado Shootings  
EMS World Expo 2013  
September 11<sup>th</sup>, 2013  
Las Vegas, Nevada
155. 2013 Approaches to Pain Management and Sedation  
EMS World Expo 2013  
September 11<sup>th</sup>, 2013  
Las Vegas, Nevada
156. Mass Casualty and Disaster Management: Lessons Learned from the Colorado Shootings  
DuPage County Medical Society Annual Meeting  
October 9<sup>th</sup>, 2013  
Chicago, Illinois
157. Mass Casualty Management: The Colorado Shootings  
Northern Colorado Emergency and Trauma Care Symposium  
October 11<sup>th</sup>, 2013  
Loveland, Colorado

158. The Combative, Uncooperative, Arrested and Threatening Trauma Patient: A Legal, Ethical and Medical Minefield!  
ACEP Scientific Assembly 2013  
October 15<sup>th</sup>, 2013  
Seattle, Washington
159. Skip the Scan! Effective Diagnostic Trauma Imaging  
ACEP Scientific Assembly 2013  
October 16<sup>th</sup>, 2013  
Seattle, Washington
160. I Survived: Domestic Disasters – Lessons Learned from the Trenches  
ACEP Scientific Assembly 2013  
October 16<sup>th</sup>, 2013  
Seattle, Washington
161. Managing Ballistic Injuries in the Pre-Hospital Setting  
World Extreme Medicine Expo 2013  
Harvard Medical School  
October 28<sup>th</sup>, 2013  
Boston, Massachusetts
162. Cadaver Lab – Trauma Procedures  
Colorado State EMS Conference 2013  
November 7<sup>th</sup>, 2013  
Keystone, Colorado
163. Mass Casualty and Disaster Management: Lessons Learned from the Colorado Shootings  
2013 Trauma and Critical Care Conference  
November 8<sup>th</sup>, 2013  
Durango, Colorado
164. Mass Casualty and Disaster Management: The Colorado Shootings  
Lake County Medical Society Annual Meeting  
December 3<sup>rd</sup>, 2013  
Chicago, Illinois
165. Myths in Trauma Care  
Yampa Valley Medical Center Trauma Conference  
November 15<sup>th</sup>, 2013  
Steamboat Springs, Colorado
166. Myths in Pediatric Care  
The Brian Schimpf Memorial Prehospital Pediatric Care Conference  
February 8<sup>th</sup>, 2014.  
Denver, Colorado
167. Child-Like Behaviors: 10 Myths of EMS Pediatric Care  
EMS State of the Science: A Gathering of Eagles XVI  
February 28<sup>th</sup>, 2014  
Dallas, Texas
168. Epidemic Proportions: Dosing Ketamine in the Era of Mamba Dramas  
EMS State of the Science: A Gathering of Eagles XVI  
March 1<sup>st</sup>, 2014

- Dallas, Texas
169. Covering Mental Illness and Violence  
Health Journalism 2014 (Association of Health Care Journalism)  
March 29<sup>th</sup>, 2014  
Denver, Colorado
  170. Wound Management: How Do you Manage Cuts and Burns  
American College of Emergency Physicians (ACEP) Advanced Practice  
Provider Academy  
April 15<sup>th</sup>, 2014  
San Diego, CA
  171. Evaluation of Patients with Blunt Multiple Trauma and Penetrating  
Trauma: A Systematic Approach  
American College of Emergency Physicians (ACEP) Advanced Practice  
Provider Academy  
April 15<sup>th</sup>, 2014  
San Diego, CA
  172. Preparedness Put to the Test: Lessons Learned from Major Events to  
Guide Hospital Disaster Preparedness  
Medical World Americas Conference and Expo  
April 28<sup>th</sup>, 2014  
Houston, TX
  173. Myths in Trauma Care  
13th Annual MS Coastal Trauma Symposium  
May 14<sup>th</sup>, 2014  
Biloxi, MS
  174. Anxiolysis for the Cardiac Care Provider: Easy Choices for Sedation in  
Emergency Care  
Emergency Cardiac Care Update (ECCU), EMS Preconference Workshop  
June 3rd, 2014  
Las Vegas, NV
  175. Taking it on the QT: What are the Cardiac Effects of Sedation Practices?  
Emergency Cardiac Care Update (ECCU), EMS Preconference Workshop  
June 3rd, 2014  
Las Vegas, NV
  176. Anxiolysis for the Cardiac Care Provider: Easy Choices for Sedation in  
Emergency Care  
Emergency Cardiac Care Update (ECCU), 2014 Citizens CPR  
Foundation: Clinical Solutions and Best Practices for EMS  
June 4th, 2014  
Las Vegas, NV
  177. Taking it on the QT: What are the Cardiac Effects of Sedation Practices?  
Emergency Cardiac Care Update (ECCU), 2014 Citizens CPR  
Foundation: Clinical Solutions and Best Practices for EMS  
June 4th, 2014  
Las Vegas, NV

178. Hyperfibrinolysis, Physiologic Fibrinolysis, and Fibrinolysis Shutdown: The Spectrum of Postinjury Fibrinolysis and Relevance to Antifibrinolytic Therapy  
Moderator - Denver Health Trauma Services Continuing Education Series  
June 25<sup>th</sup>, 2014  
Denver, CO
179. Myths in Pediatric Emergency Care  
41<sup>st</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
July 9<sup>th</sup>, 2014  
Breckenridge, CO
180. The Combative, Uncooperative, Intoxicated Patient: An Ethical, Moral and Legal Dilemma  
41<sup>st</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
July 11<sup>th</sup>, 2014  
Breckenridge, CO
181. Myths in Pediatric Care  
2014 University of Colorado Health and Denver Health Trauma Consortium:  
Acute Care Surgery, Trauma, and EMS Conference  
August 23<sup>rd</sup>, 2014  
Colorado Springs, CO
182. Rural Trauma Care  
Great Plains Trauma Conference  
September 18<sup>th</sup>, 2014  
North Platte, Nebraska
183. How to Break the Ache: 2014 Ways to Manage Prehospital Analgesia and Sedation  
Advanced EMS Practitioner's Forum and Workshop  
ACEP 2014  
October 26<sup>th</sup>, 2014  
Chicago, Illinois
184. No Small Lie: Debunking Myths in Pediatric EMS Care  
Advanced EMS Practitioner's Forum and Workshop  
ACEP 2014  
October 26<sup>th</sup>, 2014  
Chicago, Illinois
185. The Combative, Uncooperative, Arrested, and Threatening Trauma Patient: A Legal, Ethical, and Medical Minefield!  
American College of Emergency Physicians (ACEP) Scientific Assembly  
2014  
October 27<sup>th</sup>, 2014  
Chicago, Illinois
186. Cruising the Literature: The Most Influential EMS Articles of 2014  
American College of Emergency Physicians (ACEP) Scientific Assembly  
2014  
October 28<sup>th</sup>, 2014  
Chicago, Illinois

187. Tales from the Rig: EMS Medical Director Words of Wisdom  
American College of Emergency Physicians (ACEP) Scientific Assembly  
2014  
October 28<sup>th</sup>, 2014  
Chicago, Illinois
188. Imagine a World Without Backboards? Controversies in Spinal Immobilization  
American College of Emergency Physicians (ACEP) Scientific Assembly  
2014  
October 28<sup>th</sup>, 2014  
Chicago, Illinois
189. Disaster Management: Lessons Learned from the Colorado Shootings  
Keynote Address: 9th Annual NORTN Regional Trauma Conference  
November 7<sup>th</sup>, 2014  
Akron General Hospital, Akron, Ohio
190. The Combative, Uncooperative, Arrested, and Threatening Trauma Patient: A Legal, Ethical, and Medical Minefield!  
9<sup>th</sup> Annual NORTN Regional Trauma Conference  
November 7<sup>th</sup>, 2014  
Akron General Hospital, Akron, Ohio
191. Ketamine for Excited Delirium  
EMS World Expo  
November 11<sup>th</sup>, 2014  
Nashville, TN
192. 10 Myths of EMS Pediatric Care  
EMS World Expo  
November 11<sup>th</sup>, 2014  
Nashville, TN
193. Biophone Communications  
EMS World Expo  
November 11<sup>th</sup>, 2014  
Nashville, TN
194. EMS Medical Director Panel  
EMS World Expo  
November 12<sup>th</sup>, 2014  
Nashville, TN
195. The Combative, Uncooperative, Arrested, and Threatening Trauma Patient: A Legal, Ethical, and Medical Minefield!  
Boulder Community Hospital/AMR EMS Conference 2014  
December 6<sup>th</sup>, 2014  
Boulder, CO
196. Special K: Ketamine in EMS  
7<sup>th</sup> Annual Advanced Topics in Medical Direction  
NAEMSP 2015  
January 20<sup>th</sup>, 2015  
New Orleans, LA



197. First it was Backboards, now C-Collars  
EMS State of the Science: A Gathering of Eagles XVII  
February 20<sup>th</sup>, 2015  
Dallas, TX
198. Taking it to the Streets! Prehospital Infusion of Plasma  
EMS State of the Science: A Gathering of Eagles XVII  
February 20<sup>th</sup>, 2015  
Dallas, TX
199. Street Fighting Man! When the Combative Patient is Refusing Transport  
EMS State of the Science: A Gathering of Eagles XVII  
February 21<sup>st</sup>, 2015  
Dallas, TX
200. A Hurt-Full Remark: Supporting Ketamine Use for Pain Management  
EMS State of the Science: A Gathering of Eagles XVII  
February 21<sup>st</sup>, 2015  
Dallas, TX
201. Imagine a World Without Backboards? Controversies in Spinal Immobilization  
2nd Annual Brain Schimpf Memorial Pediatric EMS Conference  
February 28th, 2015  
Denver, CO
202. Providing for the Providers: Impact of Traumatic Events on Providers  
Keynote address: Colorado CPR Association Annual Meeting  
April 30<sup>th</sup>, 2015  
Denver, CO
203. Mass Casualty and Disaster Management: Lessons Learned from the Colorado Shootings  
North Trauma Care Region 2015 Trauma Symposium  
May 8<sup>th</sup>, 2015  
Tupelo, MS
204. Management of Excited Delirium in the Era of Legalized Marijuana  
Vanderbilt Residency in Emergency Medicine  
May 19<sup>th</sup>, 2015  
Nashville, TN
205. Mass Casualty and Disaster Management: Lessons Learned from the Colorado Shootings  
Grand Rounds Presentation, Vanderbilt University School of Medicine  
May 19<sup>th</sup>, 2015  
Nashville, TN
206. Active Shooter – Prehospital Forum (Moderator)  
42<sup>nd</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
June 19<sup>th</sup>, 2015  
Vail, Colorado
207. Imagine a World without Backboards  
42<sup>nd</sup> Annual Rocky Mountain Trauma and Emergency Medicine Conference  
June 20<sup>th</sup>, 2015

- Vail, Colorado
208. Mass Casualty and Disaster Management: Lessons Learned from the Colorado Shootings  
Ohio EMS Lecture Series – Keynote address  
August 20<sup>th</sup>, 2015  
Akron, Ohio
  209. Myths in Pediatric Care  
Grand Rounds, Deaconess Regional Trauma Center  
EMS Trauma Symposium  
September 9<sup>th</sup>, 2015  
Evansville, Indiana
  210. Plasma Administration in the Field: The COMBAT Trial  
World Trauma Symposium  
September 16<sup>th</sup>, 2015  
Las Vegas, Nevada
  211. The Combative, Uncooperative, Intoxicated Trauma Patient: A Medical, Legal, and Ethical Nightmare!  
EMS World  
September 17<sup>th</sup>, 2015  
Las Vegas, Nevada
  212. The Medical Impact of Marijuana Legalization  
EMS World  
September 17<sup>th</sup>, 2015  
Las Vegas, Nevada
  213. How to Deploy a New Toy for Every Girl and Boy: Implementing a Simpler System for Treating Children  
ACEP 2015 Scientific Assembly Advanced EMS Practitioners Forum and Workshop  
October 25<sup>th</sup>, 2015  
Boston, Massachusetts
  214. For the Life of all Flesh is the Blood Thereof! Prehospital Use of Blood Products and Systemic Bleeding Control  
ACEP 2015 Scientific Assembly Advanced EMS Practitioners Forum and Workshop  
October 25<sup>th</sup>, 2015  
Boston, Massachusetts
  215. Trauma STAT! Don't Miss the Visual Cue  
ACEP Scientific Assembly 2015  
October 28<sup>th</sup>, 2015  
Boston, Massachusetts
  216. The Combative, Uncooperative Trauma Patient  
ACEP Scientific Assembly 2015  
October 28<sup>th</sup>, 2015  
Boston, Massachusetts
  217. How to Deploy a New Toy for Every Girl and Boy: Implementing a Simpler System for Treating Children

- EAGLES – Best Practices in Street Medicine: Implementing the New Guidelines and Several Exceptional Innovations in Out-of-Hospital Emergency Cardiac Care  
 ECCU (Emergency Cardiovascular Care Update) 2015  
 December 9<sup>th</sup>, 2015  
 San Diego, California
218. Anxiolysis in Emergency Cardiac Care: 2015 Approaches to Safe Sedation  
 EAGLES – Best Practices in Street Medicine: Implementing the New Guidelines and Several Exceptional Innovations in Out-of-Hospital Emergency Cardiac Care  
 ECCU (Emergency Cardiovascular Care Update) 2015  
 December 9<sup>th</sup>, 2015  
 San Diego, California
219. Latest Drugs of Abuse: The Impact of Legalization of Marijuana and Testing of EMS Personnel  
 EMS Today (JEMS Conference and Exposition)  
 February 25<sup>th</sup>, 2016  
 Baltimore, Maryland
220. Chemical Suicides  
 EMS Today (JEMS Conference and Exposition)  
 February 25<sup>th</sup>, 2016  
 Baltimore, Maryland
221. Lightning Rounds: Ask the Eagles  
 EMS Today (JEMS Conference and Exposition)  
 February 26<sup>th</sup>, 2016  
 Baltimore, Maryland
- 222.

### **Certifications**

- NRP, 2009
- ATLS, 2003
- ACLS, 1996
- PALS, 1994
- ATLS instructor, 2010 - present

### **Additional Activities**

- President, Sigma Phi Epsilon fraternity, Ann Arbor, MI 1987-1988  
 Active Member: 1984-1988

- Varsity Tennis, University of Michigan, Ann Arbor, MI 1984-1988  
Big Ten Team Champions: 1985, 1986, 1988. NCAA Team Semifinals: 1988
- Psi Chi Honor Society 1987-1988
- Captain, Varsity Tennis Team, La Jolla High School, La Jolla, CA
- Michigan Alumnae Scholarship recipient, San Diego Chapter 1984-1985

**Languages**    Fluent in Spanish