

## **CURRICULUM VITAE**

**Daniel W. Spaite, MD**

### **EDUCATION**

- 1975-1979 Point Loma College, San Diego, California. Major: Chemistry, BA
- 1979-1983 Washington University School of Medicine, St. Louis, Missouri  
Degree: MD

### **POST GRADUATE TRAINING**

- 1983-1984 Internal Medicine Internship  
UCLA Medical Center  
Los Angeles, California
- 1984-1986 Emergency Medicine Residency  
UCLA Medical Center  
Los Angeles, California

### **ACADEMIC APPOINTMENTS**

- 1986-1987 Clinical Assistant Professor  
Section of Emergency Medicine  
Department of Surgery  
University of Arizona College of Medicine
- 1987-1991 Assistant Professor  
Section of Emergency Medicine  
Department of Surgery  
University of Arizona College of Medicine
- 1991-1995 Associate Professor with Tenure  
Section of Emergency Medicine  
Department of Surgery  
University of Arizona College of Medicine
- 1995-2003 Full Professor with Tenure  
Section of Emergency Medicine  
Department of Surgery  
University of Arizona College of Medicine
- 2003-Present Full Professor with Tenure  
Department of Emergency Medicine  
University of Arizona College of Medicine

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Daniel Spaite, MD

2010-Present  
Distinguished Chair of Emergency Medicine  
Department of Emergency Medicine  
University of Arizona College of Medicine

### **LICENSURE AND CERTIFICATION**

1984 – Present  
American Board of Medical Examiners (ABME)

1986 - Present  
Arizona State License, Physician and Surgeon License

1984 - 2004  
California State License, Physician and Surgeon License

1987 - Present  
Diplomate, American Board of Emergency Medicine

1990 - Present  
Fellow, American College of Emergency Physicians

### **MAJOR ADMINISTRATIVE RESPONSIBILITIES**

1997-2003  
Director of Emergency Services  
University Medical Center - Tucson

1989-2007  
Medical Director, LifeNet Arizona, University  
Medical Center - Tucson

1986-Present  
Base Hospital Medical Director  
University Medical Center - Tucson

2007-Present  
Director: EMS Research Focus Unit  
Arizona Emergency Medicine Research Center

2007-Present  
Director of EMS Research  
Arizona Resuscitation Research Institute

2010-Present  
Associate Director  
Arizona Emergency Medicine Research Center

### **SOCIETY MEMBERSHIPS**

American College of Emergency Physicians  
National Association of EMS Physicians  
Society for Academic Emergency Medicine

**COMMITTEE AND COMMISSION MEMBERSHIPS**

Local

1986-2004	Chairman, Disaster Planning Committee University Medical Center Tucson, Arizona
1986-2003	Prehospital Care Research Committee Section of Emergency Medicine
1986-2003	Trauma Research Committee Department of Surgery
1987-1992	Dean's Student Advisory Council College of Medicine
1989-1995	Medical Staff Appeals Committee University Medical Center
1989-1995	Emergency Medicine Operations Committee Section of Emergency Medicine
1989-1994	Dean's Physician Outreach Committee College of Medicine
1989-1994	Academic Peer Review Committee Department of Surgery
1991-1995	Finance Committee Department of Surgery
1991-1996	Finance Committee Section of Emergency Medicine
1993-1995	Executive Advisory Committee Department of Surgery
1994 1996	Search Committee for the Head of the Joint Trauma Program Department of Surgery

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1996-2003	Chairman, Research Proposal Evaluation Committee Section of Emergency Medicine
1989-2004	University Medical Center Air Transport Task Force
1997-2003	Quality Management Board UMC
1997-2003	Patient Care Executive Committee UMC
1997-2003	Patient Care Operations Committee UMC
1997-2003	JCAHO Assessment Committee UMC
1997-2010	Trauma Continuous Improvement Committee UMC
1997-2010	Trauma Operations Committee UMC
1997-2003	UMC Leadership Committee UMC
1997-1999	UMC Process Improvement Committees - ED Staffing - Inpatient Bed Availability - Radiology Turnaround Time - Lab Turnaround Time - MD Consultation - UMC/UPI Clinic Overflow - Trauma Service Interdisciplinary Team - Observation Unit
1996-2001	Promotion and Tenure Committee Department of Surgery College of Medicine

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2000-2002	EM Chair Search Committee College of Medicine University of Arizona
2007-2009	Chair Promotion and Tenure Committee Department of Emergency Medicine College of Medicine
2001-Present	Promotion and Tenure Committee Department of Emergency Medicine College of Medicine
1986-Present	Member Regional EMS/ED Directors Committee
2002-Present	Member Pima EMS Council
2003-Present	Chair Southeastern Arizona EMS Council
2003-Present	Member Southeastern Arizona EMS Council
2007-Present	Research Leadership Council Arizona Emergency Medicine Research Center
2010-Present	Research Directors' Council Arizona Emergency Medicine Research Center

**State and National**

1987-1993	Medical Standards Committee Arizona State EMS Council Arizona Department of Health Services
1988-1993	Research Subcommittee Arizona State EMS Council Arizona Department of Health Services

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1988-1996	Research Committee National Association of EMS Physicians
1988-1995	State Liaison Committee National Association of EMS Physicians
1989-1993	Program Committee Society for Academic Emergency Medicine
1989-1995	EMS Committee American College of Emergency Physicians
1989-1996	Emergency Medical Services Committee Society for Academic Emergency Medicine
1989-1992	Arizona State EMS Development Committee Arizona Department of Health Services
1990-1996	EMS Committee Arizona Chapter American College of Emergency Physicians
1991-1994	Nominating Committee National Association of EMS Physicians
1991-1995	Standards and Practice Committee National Association of EMS Physicians
1991-1992	Site Surveyor, Residency Review Commission Emergency Medicine (RRC)
1991-1997	Site Surveyor, Commission of Accreditation Air Medical Services (CAAMS)
1991-1995	Member, Board of Directors EMS Section American College of Emergency Physicians
1992-1997	Site Reviewer for statewide EMS system evaluations. National Highway Traffic Safety Agency, U.S. Department of Transportation.

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- 1992-1994  
Chairman, EMS Research Subcommittee  
Society for Academic Emergency Medicine
- 1992-1994  
Councilor, American College of Emergency Physicians  
Representative from EMS Section
- 1992-1994  
Chair, EMS Minimum Data Set Task Force, EMS Committee  
American College of Emergency Physicians
- 1992-1994  
EMS Data Collection Committee  
National Association of State EMS Directors
- 1992-1994  
EMS Minimum Data Set Consensus Conference Planning Task  
Force  
National Highway Traffic Safety Administration  
U.S. Department of Transportation
- 1994-2004  
National EMS for Children Advisory Board  
Health Resources and Services Administration  
U.S. Department of Health and Human Services
- 2002-Present  
Member, Governor's appointment  
Arizona State EMS Council
- 2002-Present  
Member, Governor's appointment  
Arizona State EMS Medical Direction Commission
- 2004-2006  
Institute of Medicine  
Committee on the Future of Emergency Medical Services in the  
United States  
Appointment: 2004-2006
- 2008-2009  
Advisory Council  
The Future of EMS Research Funding  
Five Year Plan for the National Highway Traffic Safety  
Administration.  
Office of Research, NHTSA, US Department of Transportation.
- 2007-2009  
Steering Committee  
Development of EMS Evidence-Based Guidelines.  
National Highway Traffic Safety Administration.

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2011-Present	Planning Committee American Heart Association Annual Resuscitation Meeting.
2011-Present	Basic Life Support Science Committee Emergency Cardiac Care Program American Heart Association
2012-Present	Program Committee National Association of EMS Physicians
2012-Present	Research Committee National Association of EMS Physicians

### **EDITORIAL BOARDS**

1990-Present	Editorial Board Associate Editor Decision Editor, EMS Section Annals of Emergency Medicine
1996-Present	Editorial Board Prehospital Emergency Care
1991-1996	Editorial Board Prehospital and Disaster Medicine

### **REVIEWER**

1986-1997	Journal of Emergency Medicine
1988-Present	Annals of Emergency Medicine
1990-Present	Prehospital and Disaster Medicine

### **STUDY SECTIONS, GRANT REVIEW BOARDS, FEDERAL PROGRAM STEERING COMMITTEES**

1992-2003	Rural Trauma System Grants Health Resources and Services Administration
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- Public Health Service  
U.S. Department of Health and Human Services
- 1993-1999 Steering Committee for the National Prehospital EMS Data Project  
National Highway Traffic Safety Administration  
U.S. Department of Transportation  
Health Resources and Services Administration  
U.S. Department of Health and Human Services.
- 1995-1996 Steering Committee for the EMS Agenda for the Future.  
National Highway Traffic Safety Administration  
U.S. Department of Transportation  
Health Resources and Services Administration  
U.S. Department of Health and Human Services.
- 1994-2003 National EMS for Children Advisory Board. Maternal and Child Health Bureau, Health Resources and Services Administration, U.S. Department of Health and Human Services.
- 1998-2003 Steering Committee for the National EMS Research Agenda  
National Highway Traffic Safety Administration  
U.S. Department of Transportation  
Health Resources and Services Administration  
U.S. Department of Health and Human Services.
- 2009-2011 Steering Committee: National Evidence-Based Guidelines in EMS Project  
National Highway Traffic Safety Administration  
U.S. Department of Transportation
- 2011-present Basic Life Support Committee  
American Heart Association

**HONORS AND AWARDS**

- 1976-1979 Sigma Phi Mu Honor Society  
Point Loma College
- 1978 Research Fellowship

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Daniel Spaite, MD

Department of Chemistry  
Point Loma College

- 1979 Summa Cum Laude, Class of 1979  
Point Loma College
- 1979 Salutatorian, Class of 1979  
Point Loma College
- 1979 Second in Class, Gross Anatomy  
Washington University School of Medicine
- 1980 Research Fellowship, Division of Cardiology Washington  
University School of Medicine
- 1983 Alpha Omega Alpha Honor Society  
Washington University School of Medicine
- 1989 Hurlbut KM, Dart RC, Spaite DW, McNally J: Reliability of  
clinical presentation for predicting significant pit viper  
envenomation. Presented to the Eighteenth Annual Meeting of  
the University Association for Emergency Medicine. May 1988,  
Cincinnati, Ohio. Selected as Best Resident Poster Abstract  
Presentation. Award presented: May, 1989. San Diego, CA.
- 1989 Emergency Medicine Excellence in Teaching Award (Emergency  
Medicine: Teacher of the Year).  
Emergency Medicine Residency, University of Arizona
- 1990-Present Fellow, American College of Emergency Physicians.
- 1991 Best Clinical Science Paper Presentation  
Society for Academic Emergency Medicine,  
May 1991. Presented at the Annual meeting in Washington, DC.  
Title: A Prospective Analysis of Injury Severity Among  
Helmeted and Non-Helmeted Bicyclists Involved in Collisions  
with Motor Vehicles.
- July 1, 1991 Promotion to Associate Professor with tenure Section of  
Emergency Medicine  
Department of Surgery  
University of Arizona

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College of Medicine

- March, 1992 Article chosen as one of the best twenty papers from among 120 to be in the Collector's Series on Emergency Medical Services. Published by Annals of Emergency Medicine. Spaite DW, Hanlon T, Criss EA, et al: Prehospital Cardiac Arrest: The Impact of Witnessed Collapse and Bystander CPR in a Metropolitan EMS System with Short Response Times.
- March 1992 Article chosen for the Collector's Series on Emergency Medicine Services. Valenzuela TD, Criss EA, Spaite DW, et al: Cost Effectiveness Analysis of Paramedic Emergency Medical Services in the Treatment of Prehospital Cardiopulmonary Arrest.
- March, 1992 Article chosen for the Collector's Series on Emergency Medicine Services. Valenzuela TD, Criss EA, Spaite DW, et al: Computer Modeling of Emergency Medical Services System Performance.
- May, 1992 EMS Research Presentation Award. Presented by the National Association of EMS Physicians for the Paper Presented to the 22nd Annual Meeting of the Society for Academic Emergency Medicine in Toronto, Ontario, Canada. Spaite, DW, Valenzuela TD, Meislin HW, Criss EA, Hinsberg P: Prospective Validation of a New Model for Evaluating EMS Systems by In-Field Observation of Specific Time Intervals in Prehospital Care.
- June, 1992 Best Scientific Poster Award. Presented at the 8th Annual Meeting of the National Association of EMS Physicians in Pittsburgh, Pennsylvania. Spaite DW, Valenzuela TD, Melissa HW: Physician In-Field Observation of Prehospital Advanced Life Support Personnel: A Statewide Evaluation.
- November, 1994 Alumnus of the Year, Point Loma Nazarene College, San Diego, California.
- July, 1995 Promoted to Full Professor with Tenure  
Section of Emergency Medicine  
Department of Surgery  
College of Medicine, University of Arizona
- 1996 Attending of the Year  
Section of Emergency Medicine

Curriculum Vitae  
Daniel Spaite, MD

Department of Surgery  
College of Medicine, University of Arizona

- December 1997 Article chosen for the 25 Anniversary issue of Annals of Emergency Medicine. Spaite DW, Criss EA, Valenzuela TD, et al: Developing a Foundation for the Evaluation of Expanded-Scope EMS: A Window of Opportunity that Cannot be Missed. Ann Emerg Med 1997; 30:791-796
- December, 1997 Election as a Distinguished Practitioner to the National Academy of the Practice of Medicine. This Academy elects no more than 100 active members from all specialties in medicine.
- May, 1998 Best Oral Scientific Paper. 28th Annual Scientific Meeting of the Society for Academic Emergency Medicine in Chicago, Illinois. Stiell IG, Spaite EW, et al: The impact of rapid defibrillation on cardiac arrest survival in the Ontario Prehospital Advanced Life Support Study.
- May, 2001 Best Medical Student Scientific Paper: 30<sup>th</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. De Maio VJ, Stiell IG, Wells G, Spaite DW: Factors associated with field pronouncement of cardiac arrest patients.
- July, 2003 Medical Student Evaluations of UA Emergency Medicine rotation: Scored number one for medical student teaching among 17 Emergency Medicine Faculty for 2002/2003 academic year.
- May, 2004 Best Faculty Clinical Science Presentation: Stiell IG, Wells GA, Spaite DW, et al: OPALS Study Phase III: What is the impact of Advanced Cardiac Life Support on Out-of-hospital cardiac arrest? Presented at the 34<sup>th</sup> annual meeting of the Society for Academic Emergency Medicine, May, 2004. Orlando, Florida.
- March, 2004 Marion Laver Visiting Professorship: 3/7/04-3/14/04, Department of Anesthesiology, University of Basel, Basel, Switzerland.
- January, 2005 CJ Shanaberger Memorial Keynote Address: "The Ontario Prehospital ALS Study—All We Now Know." Annual Scientific Meeting of the National Association of EMS Physicians. Naples, Florida.

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- 2004-2006 Institute of Medicine, Committee on the Future of Emergency Care in the US Health System, Subcommittee on Prehospital Emergency Medical Services
- August, 2006 Medic One Visiting Professorship: University of Washington College of Medicine, Seattle Medic One Program; Visiting professorship; Seattle, Washington.
- November, 2007 “The Merlin Debate: What Changed in 2008 that Made All the Difference in Prehospital Resuscitation?” Annual Resuscitation Meeting, American Heart Association, Orlando, Florida.
- February, 2008 “The implications of the Ontario Prehospital ALS Study (OPALS) for the future of Pediatric EMS research.” Keynote address: The Future of Pediatric EMS Research Conference, Pediatric Research Network (PECARN). Atlanta, Georgia.
- January, 2010 The Ronald Stewart, MD Career Award: Presented by the National Association of EMS Physicians at the 2010 Annual Scientific Meeting. It is the highest honor awarded by NAEMSP and it is given for "outstanding contributions in prehospital care and the development of quality EMS throughout the world."
- June, 2010 Geyer B, Vadeboncoeur T, Sanders A, Buttram S, Clark L, Spaite DW, Bobrow B, Kern K. Bypassing Out-of-Hospital Cardiac Arrest Patients to Specialty Centers Results in Improved Survival. *Academic Emergency Medicine*. 2010 May 11;17(S1):S143. Presented to the Annual Scientific Assembly of the Society for Academic Emergency Medicine, Phoenix, AZ, June 2-4, 2010. Best Medical Student Scientific Presentation Award.
- November, 2010 Endowed chair  
Awarded the inaugural “Distinguished Chair of Emergency Medicine”  
University of Arizona College of Medicine
- September, 2011 Visiting Professorship  
College of Medicine  
Yale University
- May, 2012 Visiting Professorship

College of Medicine  
East Carolina University

October, 2012: The John Doll Award. Bobrow BJ, Vadeboncoeur TF, Spaite DW, et al: The Effectiveness of Ultra-Brief and Brief Educational Videos for Training Lay Responders in Hands-Only™ Cardiopulmonary Resuscitation: Implications for the Future of Citizen CPR Training. *Circ Cardiovasc Qual Outcomes*. 2011;4:220-226. This publication received the John Doll Award—An annual research award given by the Arizona Department of Health Services for the most significant scientific publication by Department personnel and collaborators.

May, 2013: Abstract chosen for “The Best of SAEM—Gallery of Excellence.”  
Spaite DW, Chikani V, Bobrow BJ, et al: Prehospital Glasgow Coma Scale and Risk Stratification in Major Pediatric Traumatic Brain Injury: Association With Mortality and Non-Mortality Outcomes. Presented at the Annual the Society for Academic Medicine, May 15-18, 2013, Atlanta, Georgia.

May, 2013: Abstract chosen for “The Best of SAEM—Gallery of Excellence.”  
Safdar B, Stolz U, Stiell IG, Cone DC, Bobrow B, de Boer M, Dreyer J, Maloney J, Spaite DW: Gender and Survival In Out-of-hospital Cardiac Arrest (OHCA): Results From The OPALS (Ontario Prehospital Advanced Life Support) Study. Presented at the Annual the Society for Academic Medicine, May 15-18, 2013, Atlanta, Georgia.

### **PREHOSPITAL CARE RESPONSIBILITIES AND EXPERIENCE**

1984-1986 On-site Triage Physician County Disaster Drills Kern and Orange Counties, Norton Air Force Base, Catalina island Search and Rescue Sierra Madre Search and Rescue Santa Fe Springs, California

1985-1986 Flight Physician UCLA MedStar UCLA Medical Center more than 75 Flights

1984-1989 Medical Director Wilderness Adventures San Diego, California

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1986-Present	Base Hospital Medical Director University Medical Center Tucson, Arizona
1986-Present	Medical Director, Tubac Fire Department
1986-Present	In-field experience with paramedics based at UMC: 150-200 hours per year.
1989	Statewide In-field Observation Project (Participated in EMS operations of 20 provider agencies throughout Arizona)
1989-Present	Medical Director, Rio Rico Fire Department
1989-Present	Medical Director, Nogales Fire Department
1989-Present	Medical Director, Nogales Suburban Fire Department
1989-Present	Medical Director, Patagonia Rescue Service
1989-Present	Medical Director, Nogales Fire Department
1991-Present	Medical Director, Sonoita Fire Department
1991-Present	Medical Director, Arivaca Fire Department
2000-2003	EM Chair Search Committee College of Medicine University of Arizona
2002-Present	Member, Governor's appointment Arizona State EMS Council
2002-Present	Member, Governor's appointment Arizona State EMS Medical Direction Commission
2002-Present	Member Pima EMS Council
2003-Present	Chair Southeastern Arizona EMS Council

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Daniel Spaite, MD

2003-Present Member  
Southeastern Arizona EMS Council

**TEACHING APPOINTMENTS AND RESPONSIBILITIES**

1976-1979	Lab Instructor; Biology, Chemistry, Organic Chemistry Point Loma College
1976-1979	Tutor; Biology, Chemistry, Organic Chemistry Point Loma College
1978-1979	Student Director of Research, Department of Chemistry Point Loma College
1980-1982	Tutor; Departments of Anatomy, Neuroanatomy, and Pharmacology, Washington University School of Medicine
1984-1985	Instructor; Emergency Medical Technician (EMT) Courses, UCLA Medical Center
1986-1991	Assistant Professor, University of Arizona College of Medicine, Section of Emergency Medicine
1986-2004	Medical Student Core Lecture Series, Section of Emergency Medicine
1986-Present	Monthly EKG Conference, Section of Emergency Medicine
1992-Present	EMS Conference, Section of Emergency Medicine
1987-1990	Director of Conferences, Section of Emergency Medicine
2/88-12/88	Medical Director Intermediate EMT Course Rio Rico/Tubac Fire Departments
8/90-10/90	Medical Director EMT Defibrillation Training Program Santa Cruz County
1989-Present	Monthly Medical Flight Review



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LifeNet Arizona

1991-1995 Associate Professor  
University of Arizona College of Medicine

1991-Present Medical Director  
EMT Defibrillation Training Program  
Santa Cruz County

1995-Present Professor of Emergency Medicine  
College of Medicine  
University of Arizona

## **PUBLICATIONS**

### **Books and Monographs**

Galli R, Spaite DW, Simon RR: Emergency Orthopedics: The Spine. Appleton, Century and Crofts. 1989. 280 pages.

Galli R, Spaite DW, Simon RR: Emergency Orthopedics: The Spine. Appleton and Lange (Spanish Version, 1992, 298 pages).

Waeckerle JF, Callaham ML, Valenzuela TD, Spaite DW (eds): Collector's Series on Emergency Medical Services. American College of Emergency Physicians, 1992. 148 pages.

Galli R, Spaite DW, Simon RR: Emergency Orthopedics: The Spine. Appleton and Lange (Russian version), 1996, 428 pages.

Spaite DW: Timebomb in the Church: Defusing Pastoral Burnout. Beacon Hill Press, 2000, 225 pages.

Spaite DW: Timebomb in the Church: Defusing Pastoral Burnout. Spanish version (Bomba De Tiempo En La Iglesia), Beacon Hill Press, 2003, 225 pages.

### **Chapters in Books and Monographs**

Spaite DW: Spinal Cord Syndromes: Evaluation and Management. In Galli R, Spaite DW, Simon RR: Emergency Orthopedics: The Spine. Appleton, Century and Crofts. 1989; pp. 12-19.

Spaite DW: Arthritides of the Spine. In Galli R, Spaite DW, Simon RR: Emergency Orthopedics: The Spine. Appleton, Century and Crofts. 1989; pp. 20-32.

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Daniel Spaite, MD

Spaite DW: Infections of the Spine. In Galli R, Spaite DW, Simon RR: Emergency Orthopedics: The Spine. Appleton, Century and Crofts. 1989; pp. 38-45.

Spaite, DW: Anatomy of the Thoracic and Lumbar Spine. In Galli R, Spaite DW, Simon RR: Emergency Orthopedics: The Spine. Appleton, Century and Crofts. 1989; pp. 156-165.

Spaite DW: Physical Examination of the Thoracic and Lumbar Spine. In Galli R, Spaite DW, Simon RR: Emergency Orthopedics: The Spine. Appleton, Century and Crofts. 1989; pp. 166-201.

Spaite DW: Radiology of the Thoracic and Lumbar Spine. In Galli R, Spaite DW, Simon RR: Emergency Orthopedics: The Spine. Appleton, Century and Crofts. 1989; pp. 202-210.

Spaite DW: Fractures, Dislocations and Major Ligamentous Injuries of the Thoracic and Lumbar Spine. In Galli R, Spaite DW, Simon RR: Emergency Orthopedics: The Spine. Appleton, Century and Crofts. 1989; pp. 212-237.

Spaite DW: Minor Injuries of the Thoracic and Lumbar Spine. In Galli R, Spaite DW, Simon RR: Emergency Orthopedics: The Spine. Appleton, Century and Crofts. 1989; pp. 238-243.

Spaite DW: Scoliosis and Kyphosis. In Galli R, Spaite DW, Simon RR: Emergency Orthopedics: The Spine. Appleton, Century and Crofts. 1989; pp. 244-250.

Bates J, Criss EA, Spaite DW: Prehospital organization and medical control of hazardous materials incidents. In Sullivan JB, Krieger GR (eds) Medical Toxicology of Hazardous Materials. Williams and Wilkins, Baltimore, Maryland. January, 1992; pp. 355-364.

Brown JF, Spaite DW: Injury in the elderly and elder abuse. In Tintinalli JE, Krome RL, Ruiz E. (eds), Emergency Medicine: A Comprehensive Study Guide, Third Edition. McGraw-Hill, New York, New York. January 1992.

Valenzuela TD, Criss EA, Spaite DW, et al: Cost-Effectiveness Analysis of Paramedic Emergency Medical Services in the Treatment of Prehospital Cardiopulmonary Arrest. In Waeckerle JF, Callahan ML, Valenzuela TD, Spaite DW (eds): Collector's Series on Emergency Medical Services. American College of Emergency Physicians, Dallas, Texas. 1992, pp. 23-27.

Spaite DW, Hanlon T, Criss EA, et al: Prehospital Cardiac Arrest: The Impact of Witnessed Collapse and Bystander CPR in a Metropolitan EMS System With Short Response Times. In Waeckerle JF, Callahan ML, Valenzuela TD, Spaite DW (eds): Collector's Series on Emergency Medical Services. American College of Emergency Physicians, Dallas, Texas. 1992, pp. 41-46.

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Daniel Spaite, MD

Valenzuela TD, Criss EA, Spaite DW, et al: Computer Modeling of Emergency Medical Services Systems Performance. In Waeckerle JF, Callaham ML, Valenzuela TD, Spaite DW, (eds): Collector's Series on Emergency Medical Services. American College of Emergency Physicians, Dallas, Texas. pp. 93-96.

Dart RC, McNally JT, Spaite DW, Gustafson R: The Sequelae of Pit Viper Poisoning in the United States. In Campbell JA, Brodie ED (eds): Biology of the Pit Vipers. Selva, Tyler, Texas, 1992.

Spaite DW: Prehospital Medical Control and Disaster Management. In Markovchick VJ, Pons PT, Wolfe RE (eds): Emergency Medicine Secret's. Manley and Belfus, Philadelphia, 1993.

Spaite DW, Higie S: Topics in Emergency Medicine: Air Medical Transport. Editor of special issue with nine articles. Top Emerg Med 1994; 16:1-95.

Spaite DW, Valenzuela TD, Meislin HW: Barriers to Clinical Evaluations of EMS Systems: Problems Associated with Field Data Collection. In Fitch JJ: Prehospital Care Administration. Mosby Lifeline, St. Louis, MO 1995:533-543.

Spaite DW, Criss EA: Medical oversight and disaster management. In Markovchick VJ, Pons PT (EDS) Emergency Medicine Secrets (2<sup>nd</sup> Edition). Hanley and Belfus, Philadelphia, PA; 1999:493-495.

Bates J, Criss EA, Spaite DW: Prehospital Organization and Medical Control of Hazardous Materials Incidence in Sullivan JB, Krieger GR (eds): Medical Toxicology of Hazardous Materials (2nd Edition). Williams and Wilkins, Baltimore, MD, 2002.

Spaite DW, Criss EA: Medical oversight and disaster management. In Markovchick VJ, Pons PT (EDS) Emergency Medicine Secrets: Questions and Answers Reveal the Secrets to Safe and Effective Emergency Medicine (3<sup>rd</sup> Edition). Hanley and Belfus, Philadelphia, PA; 2003:573-575.

Spaite DW, Criss EA: Medical Oversight and Disaster Management IN Markovchick VJ, Pons PT, Wolfe RE (eds): Emergency Medicine Secret's Questions and Answers Reveal the Secrets to Safe and Effective Emergency Medicine (4<sup>th</sup> Edition). Hanley and Belfus, Philadelphia, 2006.

Spaite DW, Beskind DL, Garrison HG, Maio RF, Lerner EB, Nichol G, Keim SM: Evaluating the effectiveness of EMS systems: Utilizing outcomes research methods to identify the impact of prehospital care. In Cone DC, O'Conner RE, Fowler R (Eds.): Emergency medical services: clinical practice and systems oversight. Vol.3, 2009; Pp. 235-247: National Association of EMS Physicians.

Lerner EB, Nichol G, Spaite DW, Garrison HG, Maio RF: Conducting Prehospital Cost Analysis Research: In Cone DC, O'Conner RE, Fowler R (Eds.): Emergency medical services: clinical practice and systems oversight. Vol.3, 2009; pp. 248-254. National Association of EMS Physicians.

### **Refereed Journal Articles: Full Length Publications**

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Daniel Spaite, MD

Heasley VL, Spaite DW, Shellhamer DF: Considerations on the effect of a carbonyl group on the ring opening of a neighboring bromonium ion. *J Org Chem* 1979;44:2608-2611.

Heasley VL, Shellhamer DF, Carter T, Gipe DE, Gipe RK, Green RC, Nordeen J, Rempel TD, Spaite DW, Heasley GE: Reaction of Halogens with some alpha, beta-unsaturated aldehydes and ketones. *Tetrahedron Lett* 1981;22:2467-2470.

Sanders AB, Spaite DW, Smith R, Criss E: Allocation of time in three academic specialties. *J Emerg Med* 1988;6:435-437.

Spaite DW, Criss EA, Valenzuela TD, Meislin HW, Ogden JR: Railroad accidents: A metropolitan experience of death and injury. *Ann Emerg Med* 17:620-625, 1988.

Spaite DW, Criss EA, Valenzuela TD, Meislin HW, Smith R, Nelson A: A new model for providing prehospital medical care in large stadiums. *Ann Emerg Med* 1988;17:825-828.

Valenzuela TD, Criss EA, Hammargren WM, Schram KH, Spaite DW, Meislin HW, Clark JB: Thermal stability of prehospital medications. *Ann Emerg Med* 1989;18:173-176.

Valenzuela TD, Criss EA, Factor K, Spaite DW, Meislin HW: Medical versus regulatory necessity: Regulation of ambulance service in Arizona. *J Emerg Med* 1989;7:253-256.

Valenzuela TD, Keeley KT, Criss EA, Spaite DW, Meislin HW: Implementation of a computerized prehospital management information system in an urban fire department. *Ann Emerg Med* 1989;18:573-578.

Valenzuela TD, Criss EA, Spaite DW, Meislin HW: Evaluation of EMS management training offered during emergency medicine residency training. *Ann Emerg Med* 1989;18:812-814.

Spaite DW, Joseph M: Prehospital cricothyrotomy: An investigation of indications, complications, and patient outcome. *Ann Emerg Med* 1990;19:279-285.

Binder LS, Allison J, Spaite DW, Prosser R, Hamilton G: Twenty-four hour coverage in academic emergency medicine: Ways of dealing with the issue. *Ann Emerg Med* 1990;19:430-434.

Spaite DW, Meislin HW, Valenzuela TD, Criss EA, Smith R, Nelson A: Banning alcohol in a major college stadium: Impact on the incidence and patterns of injury and illness. *J Am Coll Health* 1990;39:125-128.

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Daniel Spaite, MD

Spaite DW, Hanlon T, Criss EA, Valenzuela TD, Wright AL, Keeley K, Meislin HW: Prehospital cardiac arrest: The impact of witnessed collapse and bystander CPR in a metropolitan EMS system with short response times. *Ann Emerg Med* 1990;19:1264-1269.

Valenzuela TD, Criss EA, Spaite DW, Meislin HW, Goldberg J: Computer modeling of EMS system performance. *Ann Emerg Med* 1990;19:898-901.

Spaite DW, Criss EA, Valenzuela TD, Meislin HW, Hinsberg P: A prospective evaluation of prehospital patient assessment by direct in-field observation: Failure of ALS personnel to measure vital signs. *Prehospital Disaster Med* 1990;5:325-334.

Spaite DW, Hanlon T, Criss EA, Valenzuela TD, Meislin HW, Ross J: Prehospital data entry compliance by paramedics after institution of a comprehensive EMS data collection tool. *Ann Emerg Med* 1990;19:1270-1273.

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Valenzuela TD, Criss EA, Spaite DW, Meislin HW, Wright AL, Clark L: Cost-effectiveness analysis of paramedic emergency medical services in the treatment of prehospital cardiopulmonary arrest. *Ann Emerg Med* 1990;19:1407-1411.

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Stiell IG, Wells GA, Spaite DW, Field BJ, Munkley DP, Lyver MB, Ward RE, De Maio VJ: Development of the trauma patient methodology for the Ontario Prehospital Advanced Life Support (OPALS) study. Presented to the 7<sup>th</sup> International Conference on Emergency Medicine. March, 1998, Vancouver, Canada.

Stiell IG, De Maio VJ, Spaite DW, Ward RE, Lyver MB, Field BJ, Munkley DP, Wells GA: CPR-only survivors of prehospital cardiac arrest. Presented to the Annual Scientific Meeting of the National Association of EMS Physicians. July 8-11, 1998. Lake Tahoe, California.

Stiell IG, Spaite DW, Wells GA, Field BJ, Munkley DP, Lyver MB, Ward RE, De Maio VJ, Campeau T: The impact of rapid defibrillation on cardiac arrest survival in the Ontario Prehospital Advanced Life Support (OPALS) study. Presented to the Annual Scientific Meeting of the National Association of EMS Physicians. July 8-11, 1998. Lake Tahoe, California.

Spaite DW: Publishing in the scientific EMS literature. Presented to the 13 Annual Scientific Meeting of the National Association of EMS Physicians. January 7, 1999. Marco Island, Florida.

Stiell IG, Anderson S, Ward RE, Spaite DW, et al: What is the quality of life of survivors of out-of-hospital cardiac arrest? Presented to the Canadian Association of Emergency Physicians Annual Scientific Meeting. October, 1999, Quebec City, Canada.

De Maio V, Stiell I, Wells G, Spaite D, Ward R: Optimal defibrillation response time intervals for maximum prehospital cardiac arrest survival rates. Presented to the Canadian Association of Emergency Physicians Annual Scientific Meeting. October, 1999, Quebec City, Canada.

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Daniel Spaite, MD

De Maio V, Stiell I, Wells G, Spaite D, Ward R: Optimal defibrillation response time intervals for maximum prehospital cardiac arrest survival rates. Presented to the 29th Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 17-21, 1999. Boston, Massachusetts.

Stiell IG, Anderson S, Ward RE, Spaite DW, et al: Feasibility evaluation of respiratory distress patients for the OPALS Study. Presented to the Royal College of Physicians and Surgeons. September, 1999, Montreal, Canada.

Spaite DW, Bartholomeaux F, Guisto J, Lindberg E, Hull B, Eyherabide A, Lanyon S, Criss EA, Valenzuela TD, Conroy C: Rapid Process Redesign in a University-Based Emergency Department: Decreasing Waiting Time Intervals and Improving Patient Satisfaction. Presented to the Annual Scientific Assembly of the American College of Emergency Physicians. October 1999; Las Vegas, Nevada.

Spaite DW: Pitfalls in EMS research. Presented to the 29th Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 17-21, 1999. Boston, Massachusetts. (Invited)

Stiell IG, Anderson S, Ward RE, Spaite DW, et al: Feasibility evaluation of respiratory distress patients for the OPALS Study. Presented to the 29th Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 17-21, 1999. Boston, Massachusetts.

De Maio V, Stiell I, Wells G, Spaite D, Ward R: Optimal defibrillation response time intervals for maximum prehospital cardiac arrest survival rates. Presented to the 29th Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 17-21, 1999. Boston, Massachusetts.

Karriker KJ, Spaite DW: Self-perceptions of knowledge and comfort by EMS personnel: Which measure is most sensitive? Presented to the Annual Meeting of the American Evaluation Association, November, 1999, Orlando, Florida.

Spaite DW, Bartholomeaux F, Guisto J, et al: Rapid process redesign in a University-based emergency department: Decreasing waiting time intervals and improving patient satisfaction. Presented to the American College of Emergency Physicians' Annual Research Forum, Las Vegas, Nevada, October 11-12, 1999.

Valenzuela TD, Roe DJ, Nichol G, Clark LL, Spaite DW: The Casino Project: Implications for public access defibrillation. Presented to the 30th Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 17-21, 2000, San Francisco, CA.

Stiell I, De Maio V, Nichol G, Spaite DW, et al: Predictors of good quality of life in prehospital cardiac arrest survivors. Presented at the 5<sup>th</sup> Scientific Congress of the European Resuscitation Council, Resuscitation 2000. June, 2000, Antwerp, Belgium.

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Daniel Spaite, MD

Easo J, Stiell I, Wells G, Spaite DW, et al: Feasibility evaluation of chest pain patients for the Ontario Prehospital ALS Project. Presented to the 30th Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 17-21, 2000, San Francisco, CA.

De Maio V, Stiell I, Wells G, Spaite DW, et al: Factors associated with field pronouncement of cardiac arrest patients. Presented to the 30th Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 17-21, 2000, San Francisco, CA.

Stiell I, De Maio V, Nichol G, Spaite DW, et al: Predictors of good quality of life in prehospital cardiac arrest survivors. Presented to the 30th Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 17-21, 2000, San Francisco, CA.

Easo J, Stiell I, Wells G, Spaite DW, et al: Feasibility evaluation of chest pain patients for the Ontario Prehospital ALS Project. Presented at the Annual Scientific Meeting of the Canadian College of Emergency Physicians. June, 2000, Saint John, Canada.

Stiell I, De Maio V, Nichol G, Spaite DW, et al: Predictors of good quality of life in prehospital cardiac arrest survivors. Presented at the Annual Scientific Meeting of the Canadian College of Emergency Physicians. June, 2000, Saint John, Canada.

De Maio V, Stiell I, Wells G, Spaite DW, et al: Factors associated with field pronouncement of cardiac arrest patients. Presented at the Annual Scientific Meeting of the Canadian College of Emergency Physicians. June, 2000, Saint John, Canada.

De Maio VJ, Stiell IG, Wells GA, Martin, MT, Doherty J, Spaite DW, et al: Potential impact of public access defibrillation based upon cardiac arrest locations. Presented to the 31<sup>st</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 6-9, 2001, Atlanta, Georgia.

De Maio VJ, Stiell IG, Wells GA, Martin, MT, Spaite DW, et al: The relationship between out-of-hospital cardiac arrest survival and community bystander CPR rates. Presented to the 31<sup>st</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 6-9, 2001, Atlanta, Georgia.

Garrison HG, Maio RF, Spaite DW: Application of measurement tools to pediatric emergency medicine. Presented to the Ambulatory Pediatric Association and Emergency Medical Services for Children Conference: Improving Emergency Medical Services for Children Through Outcomes Research: An Interdisciplinary Approach. March 30, 2001, Reston, Virginia.

De Maio VJ, Stiell IG, Wells GA, Martin, MT, Spaite DW, et al: The relationship between out-of-hospital cardiac arrest survival and community bystander CPR rates. Presented at the Canadian Association of Emergency Physicians Annual Scientific Meeting. March, 2001, Calgary, Canada.



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Daniel Spaite, MD

Stiell IG, Wells GA, DeMaio VJ, Spaite DW, et al: Multi-center controlled clinical trial to evaluate the impact of Advanced Life Support on out-of-hospital respiratory distress patients. Presented to the 32<sup>nd</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 18-22, 2002, St. Louis, Missouri.

Vallaincourt C, Stiell IG, Wells GA, Spaite DW, et al: Predicted impact of citizen CPR training on cardiac arrest survival based on location of cardiac arrest. Presented to the 32<sup>nd</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 18-22, 2002, St. Louis, Missouri.

DeMaio VJ, Stiell IG, Wells GA, Spaite DW, et al: Identification of high risk locations of cardiac arrest for optimal implementation of Public Access Defibrillation. Presented to the 32<sup>nd</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 18-22, 2002, St. Louis, Missouri.

Saginur M, Stiell IG, Nesbitt L, Wells GA, Spaite DW, et al: Management and outcomes of out-of-hospital seizure patients attended to by EMS. Presented to the 32<sup>nd</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 18-22, 2002, St. Louis, Missouri.

Stiell IG, Wells GA, De Maio VJ, Martin MT, Brisson D, Cousineau D, Doherty J, Spaite DW: What are the outcomes and final diagnoses of chest pain patients transported to the hospital by EMS? Presented to the 32<sup>nd</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 18-22, 2002, St. Louis, Missouri.

Stiell IG, Wells GA, DeMaio VJ, Spaite DW, et al: Multi-center controlled clinical trial to evaluate the impact of Advanced Life Support on out-of-hospital respiratory distress patients. Presented to the Annual Scientific Meeting of the Canadian College of Emergency Physicians. June, 2002, Hamilton, Ontario, Canada.

Vallaincourt C, Stiell IG, Wells GA, Spaite DW, et al: Predicted impact of citizen CPR training on cardiac arrest survival based on location of cardiac arrest. Presented to the Annual Scientific Meeting of the Canadian College of Emergency Physicians. June, 2002, Hamilton, Ontario, Canada.

DeMaio VJ, Stiell IG, Wells GA, Spaite DW, et al: Identification of high risk locations of cardiac arrest for optimal implementation of Public Access Defibrillation. Presented to the Annual Scientific Meeting of the Canadian College of Emergency Physicians. June, 2002, Hamilton, Ontario, Canada.

Saginur M, Stiell IG, Nesbitt L, Wells GA, Spaite DW, et al: Management and outcomes of out-of-hospital seizure patients attended to by EMS. Presented to the Annual Scientific Meeting of the Canadian College of Emergency Physicians. June, 2002, Hamilton, Ontario, Canada.

Stiell IG, Wells GA, DeMaio VJ, Spaite DW, et al: Multi-centre controlled clinical trial to evaluate the impact of Advanced Life Support on out-of-hospital respiratory distress patients. Presented to the 9<sup>th</sup> International Conference on Emergency Medicine, Edinburgh, Scotland, June 2002.

Stiell IG, Wells GA, Spaite DW, et al: OPALS Study Phase III: What is the impact of Advanced Cardiac Life Support on Out-of-hospital cardiac arrest? Presented to the 33<sup>rd</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 29-31, 2003, Boston, Massachusetts.

Jones AE, Stiell IG, Nesbitt LP, Spaite DW, et al: Non-traumatic prehospital hypotension predicts short-term mortality. Presented to the 33<sup>rd</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 29-31, 2003, Boston, Massachusetts.

Stiell IG, DeMaio VJ, Nesbitt LP, Nichol G, Spaite DW, et al: Predictors of survival for out-of-hospital respiratory distress patients in the OPALS study. Presented to the 33<sup>rd</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 29-31, 2003, Boston, Massachusetts.

Richard J, Stiell IG, Osmond M, Nesbitt LP, Beaudoin T, Spaite DW, et al: How are pediatric patients managed by EMS and what are their outcomes? Presented to the 33<sup>rd</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 29-31, 2003, Boston, Massachusetts.

Nichol G, Stiell IG, Blackburn J, Luciano T, Nesbitt LP, Wells GA, Huszti E, Spaite DW, et al: Quality of life outcomes for respiratory distress patients treated by EMS. Presented to the 33<sup>rd</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 29-31, 2003, Boston, Massachusetts.

Stiell IG, Wells GA, DeMaio VJ, Nesbitt LP, Brisson D, Cousineau D, Beaudoin T, Vaillancourt C, Spaite DW, et al: Multicenter controlled clinical trial to evaluate the impact of Advanced Life Support on out-of-hospital chest pain patients. Presented to the 33<sup>rd</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 29-31, 2003, Boston, Massachusetts.

DeMaio VJ, Stiell IG, Vaillancourt C, Wells GA, Spaite DW, et al: A location-specific utility measure to guide the distribution of Public Access Defibrillation (PAD) programs within the community. Presented to the 33<sup>rd</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 29-31, 2003, Boston, Massachusetts.

Stiell IG, Wells GA, Spaite DW, et al: OPALS Study Phase III: What is the impact of Advanced Cardiac Life Support on Out-of-hospital cardiac arrest? Presented to the Annual Scientific Meeting of the Canadian College of Emergency Physicians. June 14-17, 2003, Winnipeg, Manitoba, Canada.

Jones AE, Stiell IG, Nesbitt LP, Spaite DW, et al: Non-traumatic prehospital hypotension predicts short-term mortality. Presented to the Annual Scientific Meeting of the Canadian College of Emergency Physicians. June 14-17, 2003, Winnipeg, Manitoba, Canada.

Stiell IG, DeMaio VJ, Nesbitt LP, Nichol G, Spaite DW, et al: Predictors of survival for out-of-hospital respiratory distress patients in the OPALS study. Presented to the Annual Scientific Meeting of the Canadian College of Emergency Physicians. June 14-17, 2003, Winnipeg, Manitoba, Canada.

Richard J, Stiell IG, Osmond M, Nesbitt LP, Beaudoin T, Spaite DW, et al: How are pediatric patients managed by EMS and what are their outcomes? Presented to the Annual Scientific Meeting of the Canadian College of Emergency Physicians. June 14-17, 2003, Winnipeg, Manitoba, Canada.

Nichol G, Stiell IG, Blackburn J, Luciano T, Nesbitt LP, Wells GA, Huszti E, Spaite DW, et al: Quality of life outcomes for respiratory distress patients treated by EMS. Presented to the Annual Scientific Meeting of the Canadian College of Emergency Physicians. June 14-17, 2003, Winnipeg, Manitoba, Canada.

Stiell IG, Wells GA, DeMaio VJ, Nesbitt LP, Brisson D, Cousineau D, Beaudoin T, Vaillancourt C, Spaite DW, et al: Multicenter controlled clinical trial to evaluate the impact of Advanced Life Support on out-of-hospital chest pain patients. Presented to the Annual Scientific Meeting of the Canadian College of Emergency Physicians. June 14-17, 2003, Winnipeg, Manitoba, Canada.

DeMaio VJ, Stiell IG, Vaillancourt C, Wells GA, Spaite DW, et al: A location-specific utility measure to guide the distribution of Public Access Defibrillation (PAD) programs within the community. Presented to the Annual Scientific Meeting of the Canadian College of Emergency Physicians. June 14-17, 2003, Winnipeg, Manitoba, Canada.

De Maio V, Stiell IG, Vaillancourt C, Wells G, Beaudoin T, Nesbitt L, Spaite D. Locations of pediatric cardiac arrest: implications for public access defibrillation. Presented at the National Association of EMS Physicians, Tucson, AZ, January 2004.

Stiell IG, Nesbitt L, Wells GA, Nichol G, Cousineau D, Spaite DW, et al: Are any ALS treatments associated with better survival in out-of-hospital cardiac arrest? Presented to the 34<sup>th</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 15-20, 2004; Orlando, Florida.

DeMaio VJ, Stiell IG, Vaillancourt C, Wells GA, Nesbitt L, Beaudoin T, Spaite DW: The epidemiology of cardiac arrest in schools: Limited potential for PAD in a low risk setting. Presented to the 34<sup>th</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 15-20, 2004; Orlando, Florida.

Spaite, DW: The complexities of doing prehospital research: Lessons learned from the Ontario Prehospital ALS Project. March, 2004. 24<sup>th</sup> Annual Marion Laver Lectureship in Anesthesiology, University of Basel College of Medicine, Basel, Switzerland.

Spaite, DW: The impact of prehospital ALS on outcomes in patients presenting with chest pain in the field: A report from the Ontario Prehospital ALS Project. March, 2004. 24<sup>th</sup> Annual Marion Laver Lectureship in Anesthesiology, University of Basel College of Medicine, Basel, Switzerland.

Spaite, DW: The impact of prehospital ALS on outcomes in patients presenting with respiratory distress in the field: A report from the Ontario Prehospital ALS Project. March, 2004. 24<sup>th</sup> Annual Marion Laver Lectureship in Anesthesiology, University of Basel College of Medicine, Basel, Switzerland.

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Daniel Spaite, MD

Spaite, DW: The impact of prehospital ALS on out-of-hospital cardiac arrest: A report from the Ontario Prehospital ALS Project. March, 2004. 24<sup>th</sup> Annual Marion Laver Lectureship in Anesthesiology, University of Basel College of Medicine, Basel, Switzerland.

Stiell IG, Nesbitt LP, Wells GA, DeMaio VJ, Campbell S, Nadkarni V, Berg R, Osmond M, Donoghue A, De Maio V, Mechem C, Richmond N, Tunik M, Hatley T, Clark L, Spaite DW, Valenzuela, TD: What are the most important unanswered questions for pediatric cardiac arrest? Presented to the Annual Scientific Meeting of the Canadian College of Emergency Physicians. June, 2004, Canada.

Stiell IG, Nesbitt LP, Pickett W, Munkley D, Spaite DW, et al: The OPALS Major Trauma Study: Impact of Advanced Life Support on survival and morbidity in major trauma patients. Presented to the 34<sup>th</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 15-20, 2004; Orlando, Florida.

CJ Shanaberger Memorial Keynote Address: "The Ontario Prehospital ALS Study—All We Now Know." Annual Scientific Meeting of the National Association of EMS Physicians, January 14, 2005, Naples, Florida.

Stiell IG, Nesbitt LP, Osmond MH, Campbell, S, Gerein R, Spaite DW, et al: OPALS Pediatric Study: What is the impact of Advanced Life Support on out-of-hospital cardiac arrest? Presented to the 35<sup>th</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 22-25, 2005, New York City, New York.

Stiell IG, Nesbitt L, Pickett W, Brisson D, Banek J, Field B, Spaite D, et al: OPALS Major Trauma Study: Impact of Advanced Life Support on survival and mortality. Presented to the 35<sup>th</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 22-25, 2005, New York City, New York.

De Maio VJ, Stiell IG, Nesbitt L, Wells GA, Spaite D: Faster Advanced Life Support response intervals may improve cardiac arrest survival. Presented to the 35<sup>th</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 22-25, 2005, New York City, New York.

Stiell IG, Nesbitt L, Pickett W, Brisson D, Banek J, Field B, Spaite D, et al: OPALS Major Trauma Study: Does the addition of Advanced Life Support to a multicenter Basic Life Support system affect traumatic brain injury outcomes? Presented to the 35<sup>th</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 22-25, 2005, New York City, New York.

Lerner EB, Maio RF, Garrison HG, Spaite DW: Systematic literature review of the economic value of EMS systems and EMS care. Presented to the Annual Scientific Conference of the International Interdisciplinary Conference on Emergencies. June, 2005. Montreal, Quebec, Canada.

Lerner EB, Spaite DW, Maio RF, Garrison, HG: The EMS Outcomes Project: Development of a conceptual framework for the future of outcomes research in the prehospital setting. Annual Scientific

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Daniel Spaite, MD

Meeting of the International Society for Emergency Medicine. June 7, 2006. Halifax, Nova Scotia, Canada. (Invited)

Spaite DW: The implications of the Institute of Medicine report on the future of Emergency Care in the US. University of Washington, Seattle Medic One Program; Visiting professorship. August, 15, 2006: (Invited)

Spaite DW: The Merlin Debate: What Changed in 2008 that Made All the Difference in Prehospital Resuscitation? Annual Resuscitation Meeting, American Heart Association, November, 2007; Orlando, Florida. (Invited)

Lerner EB, Spaite DW, Maio RF, Garrison, HG: The EMS Cost Analysis Project: A Tale of Three Cities. Annual Meeting of the National Association of State EMS Officials. November 2, 2007. Minneapolis, Minnesota.

Spaite DW: The Development of Evidence-Based Guidelines for Prehospital Emergency Medical Services. National Highway Traffic Safety Administration, US Department of Transportation. January, 2008; Washington, DC. (Invited)

Spaite DW: The implications of the Ontario Prehospital ALS Study (OPALS) for the future of Pediatric EMS research. Keynote address: The Future of Pediatric EMS Research Conference, Pediatric Research Network (PECARN). February, 2008; Atlanta, Georgia. (Invited)

Bobrow BJ, Spaite DW, Vadeboncoeur TF, Chikani V, Clark L, Mullins T, Sanders AB: Safety Evaluation of a Prehospital Cardiac Arrest Regionalization Protocol for Patients With Return of Spontaneous Circulation in the Field: Presented to the Annual Scientific Meeting of the National Association of EMS Physicians, Phoenix, AZ, January, 2008.

Spaite DW, Stiell IG, Bobrow BJ, de Boer M, Maloney J, Denninghoff K, Vadeboncoeur TF, Dreyer J, Wells GA: Impact of Longer Transport on Out-of-Hospital Cardiac Arrest Survival: Implications for Regionalizing Post-Resuscitation Care: Presented to the 38<sup>th</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine. May 29-31, 2008, Washington, DC.

Spaite DW, Lang E, Dawson D, Krohmer J: From Evidence to EMS Practice: Building the National Model: Presented to the 39<sup>th</sup> Annual Scientific Meeting of the Society for Academic Emergency Medicine, May 16, 2009, New Orleans, Louisiana. (Invited)

Spaite DW: EMS Research for Children With Special Healthcare Needs: Presented to the National EMS for Children Annual Meeting, June 12, 2009, Alexandria, Virginia. (Invited)

Spaite DW: Evidence-based Practice in Healthcare and EMS: Presented at Bridging the Gap between EMS and Health Services Research: A Conference for Researchers and Practitioners, July 23, 2009, Robert

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Daniel Spaite, MD

Wood Johnson Foundation, Agency for Healthcare Research & Quality, New Brunswick, New Jersey.  
(Invited)

Bobrow BJ, Spaite DW, Sanders AB, et al: Survival From Out-of-Hospital Cardiac Arrest Among Patients Receiving AHA 2000 ACLS Guidelines, AHA 2005 ACLS Guidelines, or Cardiocerebral Resuscitation: A Statewide Analysis. Presented to the Annual Scientific Meetings of the American Heart Association, November 8-9, 2008, New Orleans, Louisiana.

Bobrow BJ; Spaite DW, Geyer B, Sanders AB, Vadeboncoeur T, Demaerschalk B, Clark L, Ewy G: Development of the Arizona Statewide Consortium of Cardiac Arrest Centers. Presented to the Annual Scientific Meetings of the American Heart Association, November 8-9, 2008, New Orleans, Louisiana.

Geyer B, Bobrow BJ, Spaite DW, Sanders AB, Vadeboncoeur T, Demaerschalk B, Clark L, Ewy G: A Statewide Network of Cardiac Arrest Centers Significantly Improves Outcomes from Out of Hospital Cardiac Arrest. Presented to the Annual Scientific Meeting of the Society for Academic Emergency Medicine, May 13-17, 2009, New Orleans, Louisiana.

Spaite DW: Evidence-based Practice in Healthcare and EMS: Presented at Bridging the Gap between EMS and Health Services Research: A Conference for Researchers and Practitioners, July 23, 2009, Robert Wood Johnson Foundation, Agency for Healthcare Research & Quality, New Brunswick, New Jersey.  
(Invited)

Geyer BC, Striegel T, Spaite DW, Mullins T, Sanders AB, Clark L, Kern KB, Ewy GA, Vadeboncoeur TF, Bobrow BJ: Statewide Network of Cardiac Arrest Centers Improves Survival From Out of Hospital Cardiac Arrest. Presented to the Resuscitation Science Symposium of the American Heart Association, November 14-15, 2009; Orlando, Florida.

Spaite DW, Ducote J, Gallagher J, Smith G, Valenzuela D, Stapczynski S, Chikani V, Clark L, Bobrow B: Fire Department-Led Community CPR Education Impacts Bystander CPR Performance. Presented to the Resuscitation Science Symposium of the American Heart Association, November 14-15, 2009; Orlando, Florida.

Bobrow B, Spaite DW, Mullins T, Geyer B, Vadeboncoeur T, Chikani V, Clark L, LoVecchio F, Bunis J, Ewy GA: The Impact of State and National Efforts to Improve Bystander CPR Rates in Arizona. Presented to the Resuscitation Science Symposium of the American Heart Association, November 14-15, 2009; Orlando, Florida.

Spaite DW, Bobrow BJ: "Regionalization of EMS Care: Beyond Trauma." Presented to the Annual Scientific Meeting of the National Association of EMS Physicians. Phoenix, AZ, January 8, 2010.  
(Invited)

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Daniel Spaite, MD

Geyer BC, Bobrow BJ, Spaite DW, Mullins T, Sanders AB, Vadeboncoeur TF, Clark LL, Kern KB, Berg RA, Ewy GA: The Association between Cardiac Arrest Center Patient Volume and Survival in a Statewide Post-Arrest Care System. Presented to the Annual Scientific Meeting of the National Association of EMS Physicians. Phoenix, AZ, January 8, 2010.

Cone D, Spaite DW, Hollander J, Adams J: "Fixing the Emergency Medicine Research Enterprise." Presented to the Annual Scientific Assembly of the Society for Academic Emergency Medicine, Phoenix, AZ, June 3, 2010. (Invited)

Geyer BC, Bobrow BJ, Spaite DW, Mullins T, Sanders AB, Vadeboncoeur TF, Clark LL, Kern KB, Berg RA, Ewy GA: Survival Improves after County-wide Implementation of a Regionalized Post-Arrest Care System. Presented to the Annual Scientific Assembly of the Society for Academic Emergency Medicine, Phoenix, AZ, June 2-4, 2010.

Geyer B, Vadeboncoeur T, Sanders A, Buttram S, Clark L, Spaite D, Bobrow B, Kern K. Bypassing Out-of-Hospital Cardiac Arrest Patients to Specialty Centers Results in Improved Survival. Presented to the Annual Scientific Assembly of the Society for Academic Emergency Medicine, Phoenix, AZ, June 2-4, 2010.

"The Top EMS Research in the Scientific Literature: 2010" Presented to the Annual Southwestern Trauma Conference, Tucson, AZ; August 12, 2010. (Invited)

Roosa J, Vadeboncoeur T, Geyer B, Spaite DW, Panchal A, Sanders AB, Bobrow BJ, Kern K: Prevalence of Cardiac Catheterization and Outcomes from Out-of-Hospital Cardiac Arrest in a Consortium of Cardiac Receiving Centers. Presented to the Resuscitation Science Symposium of the American Heart Association, November 13-14, 2010; Chicago, Illinois.

Bobrow BJ, Spaite DW, Geyer B, Panchal A, Mullins T, Kern K, Sanders AB, Ewy GA: The Impact of a Statewide, Comprehensive System of Care on Survival from Out-of-Hospital Cardiac Arrest. Presented to the Resuscitation Science Symposium of the American Heart Association, November 13-14, 2010; Chicago, Illinois.

Bobrow BJ, Vadeboncoeur T, Spaite DW, Potts J, Denninghoff K, Chikani V, Brazil P, Ramsey B, Abella B: The Effectiveness of Ultra-Brief and Brief Educational Videos for Training Lay Responders in Hands-Only™ Cardiopulmonary Resuscitation: Implications for the Future of Citizen CPR Training. Presented to the Resuscitation Science Symposium of the American Heart Association, November 13-14, 2010; Chicago, Illinois.

McCarty K, Nichol G, Chikani V, Bunis J, Roosa J, Spaite DW, Mullins M, Bobrow BJ: Early Withdrawal of Post-Arrest Care after Therapeutic Hypothermia in Victims of Out-of-Hospital Cardiac Arrest. Presented to the Resuscitation Science Symposium of the American Heart Association, November 13-14, 2010; Chicago, Illinois.

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Daniel Spaite, MD

Panchal A, Stolz U, Spaite DW, Sanders AB, Kern KB, Ewy GA, Bobrow BJ: The Impact of Hands-Only CPR by Bystanders on Survival in Adult Victims of Out-of-Hospital Arrest Caused by Non-cardiac Etiologies. Presented to the Resuscitation Science Symposium of the American Heart Association, November 13-14, 2010; Chicago, Illinois.

Bobrow BJ, Vadeboncoeur TF, Spaite DW, Potts J, Denninghoff K, Chikani V, Brazil PR, Ramsey B, Abella B: Impact of brief or ultra-brief Hands-Only CPR video training on the confidence of lay citizens to perform CPR. Presented to the European Resuscitation Council Annual Scientific Conference; December 2-4, 2010; Porto, Portugal.

Crawford S, Venuti M, Mason T, Walka P, Smith G, Mullins M, Silver A, Bobrow B (Presenter: Spaite DW): Pre-hospital Chest Compression Quality is Improved with Scenario Based Training and Use of Novel Defibrillator Technology. Presented to the European Resuscitation Council Annual Scientific Conference; December 2-4, 2010; Porto, Portugal.

“Implementation of Data Reporting as a Mechanism to Improve Outcomes from Out-of-Hospital Cardiac Arrest: OHCA as a Reportable Disease. Presented to the Annual Scientific meeting of the National Association of EMS Physicians; January 13-15, 2011; Bonita Springs, Florida. (Invited)

Bourn S, Stolz U, Gaither J, Denninghoff K, Spaite D: The relationships between ambulance crew configuration, EMS on-scene interval, procedural performance, and the Rapid Acute Physiology Score (RAPS) in adult EMS patients. Presented to the Annual Scientific meeting of the National Association of EMS Physicians; January 13-15, 2011; Bonita Springs, Florida.

Bourn S, Spaite D, Stolz U, Beskind D, Gaither J, Denninghoff K: The Relationship between EMS Response Interval, ALS Interventions, and the Rapid Acute Physiology Score (RAPS) in Adult EMS Patients. Presented to the Annual Scientific meeting of the National Association of EMS Physicians; January 13-15, 2011; Bonita Springs, Florida.

Geyer BC, Spaite DW, Stolz U, Panchal A, Vadeboncoeur TF, Mullins T, Sanders AB, Mullins MJ, Gallagher J, Ewy GA, Bobrow BJ: The Impact of a Statewide Comprehensive System of Care on Survival from Out-of-Hospital Cardiac Arrest. Presented to the Annual Scientific meeting of the National Association of EMS Physicians; January 13-15, 2011; Bonita Springs, Florida.

Crawford S, Venuti M, Mason T, Walka P, Smith G, Mullins M, Silver A, Bobrow BJ, Spaite DW: Prehospital Chest Compression Quality is Improved with Scenario Based Training and Use of Novel Defibrillator Technology. Presented to the Annual Scientific meeting of the National Association of EMS Physicians; January 13-15, 2011; Bonita Springs, Florida.



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Daniel Spaite, MD

Bourn S, Stolz U, Spaite DW: The Relationship Between the Rapid Acute Physiology Score (RAPS), Prehospital CPAP, and Advanced Life Support Interventions. Presented to the Annual Scientific meeting of the Western Regional SAEM Meeting in Keystone Colorado, February 24-26, 2011.

Bourn S, Stolz U, Beskind DL, Spaite DW: Ambulance Crew Configuration: Associations with Prehospital Management and Clinical Parameters in a Multi-system Analysis of Out-of-Hospital Cardiac Arrest. Presented to the Annual Scientific meeting of the Western Regional SAEM Meeting, Keystone Colorado, February 24-26, 2011.

Bourn S, Gaither JB, Stolz U, Spaite DW: Clinical and Demographic Attributes Among Critically Ill and Injured Patients Receiving Prehospital Intraosseous Infusion: a Multi-system Analysis. Presented to the Annual Scientific meeting of the Western Regional SAEM Meeting; Keystone, Colorado; February 24-26, 2011.

Spaite DW, Crawford S, Venuti M, Mason T, Walka P, Smith G, Silver A, Stolz U, Bobrow BJ: The Impact of Scenario-based Training and Real-time Technology Feedback on CPR Quality and Survival from Out-of-hospital Cardiac Arrest. Presented to the Annual Scientific Meeting of the Society for Academic Emergency Medicine; Boston, MA; June 2-5, 2011.

Cudnik MT, Rea TD, Sasson C, Sayre MR, Bobrow BJ, Spaite DW, McNally B, Denninghoff K, Stolz U: Hospital Volume and Survival in Out of Hospital Cardiac Arrest. Presented to the Annual Scientific Meeting of the Society for Academic Emergency Medicine; Boston, MA; June 2-5, 2011.

Bourn S, Stolz U, Beskind DI, Spaite DW: Ambulance Crew Configuration: Associations With Prehospital Management and Clinical Parameters in a Multi-system Analysis of Out-of-hospital Cardiac Arrest. Presented to the Annual Scientific Meeting of the Society for Academic Emergency Medicine; Boston, MA; June 2-5, 2011.

Spaite DW, Stolz U, Silver AE, Kaufman CL, Smith G, Venuti M, Mullins M, Bobrow BJ, Ewy G: The Association Between End-Tidal CO<sub>2</sub> and CPR Quality Metrics in Out-of-Hospital Cardiac Arrest. Presented to the European Resuscitation Congress; October 14-15, 2011; Valetta, Malta.

Panchal AR, Vadeboncoeur TF, Stolz U, Spaite DW, Berg RA, Sanders AB, Kern KB, Welch A, Bobrow BJ, Ewy GA: Ability of Bystanders to Appropriately Provide Rescue Breathing in the Setting of a Chest Compression-Only CPR Campaign for Sudden Cardiac Arrest. Presented to the Annual Resuscitation Science Sessions of the American Heart Association. November 12-13, 2011, Orlando, FL.

Roosa JR, Spaite DW, Panchal AR, Stolz U, Vadeboncoeur TF, Silver A, Mullins MJ, Kern KB, Bobrow BJ, Ewy GA: Body Weight-Related Adjustments to Chest Compression Depth by EMS Providers during Out-of-Hospital Cardiac Arrest. Presented to the Annual Resuscitation Science Sessions of the American Heart Association. November 12-13, 2011, Orlando, FL.

Curriculum Vitae  
Daniel Spaite, MD

Panchal AR, Vadeboncoeur TF, Stolz U, Roosa JR, Berg RA, Ewy GA, Mullins MJ, Bobrow BJ, Spaite DW: Impact of an AHA Guideline-Based, Statewide Post-Arrest System of Care on Survival from Out-of-Hospital Cardiac Arrest. Presented to the Annual Resuscitation Science Sessions of the American Heart Association. November 12-13, 2011, Orlando, FL.

Roosa JR, McCarty K, Kitamura B, Page R, Dommer PD, Silver A, Panchal AR, LoVecchio F, Spaite DW, Bobrow BJ: CPR Quality in an Urban Teaching Hospital Emergency Department: Are 2010 AHA Guidelines Being Implemented? Presented to the Annual Resuscitation Science Sessions of the American Heart Association. November 12-13, 2011, Orlando, FL.

Bobrow BJ, Spaite DW, Stolz U, Panchal AR, Vadeboncoeur TF, Silver A, Pyers K, Venuti M, Smith G, Ewy GA: Achieving the 2010 AHA Guideline Metrics for CPR Quality is Associated with Improved Survival from Out-of-Hospital Cardiac Arrest. Presented to the Annual Resuscitation Science Sessions of the American Heart Association. November 12-13, 2011, Orlando, FL.

Roosa JR, Spaite DW, Stoltz U, Smith G, Silver A, Tobin J, Venuti M, Bobrow BJ. The Association Between End-Tidal CO<sub>2</sub> and CPR Quality Metrics in Out-of-Hospital Cardiac Arrest. Presented to the National Association of EMS Physicians, January 13, 2012, Tucson, AZ.

Roosa JR, Spaite DW, Panchal AR, Stolz U, Vadeboncoeur TF, Silver A, Kern KB, Bobrow BJ, Ewy GA. Body Weight-Related Adjustments to Chest Compression Depth by EMS Providers During Out-of-Hospital Cardiac Arrest. Presented to the National Association of EMS Physicians, January 13, 2012, Tucson, AZ.

Spaite DW, Bobrow BJ: Statewide Implementation of the EMS Traumatic Brain Injury Guidelines: The Excellence in Prehospital Injury (EPIC) Study. Presented to the National Association of EMS Physicians, January 13, 2012, Tucson, AZ (invited).

Bobrow BJ, Spaite DW: Survival Impact of a Comprehensive System of Care for Out-of Hospital Cardiac Arrest in a Major Metropolitan Fire Department. Presented to the National Association of EMS Physicians, January 13, 2012, Tucson, AZ (invited).

Spaite DW, Stolz U, Bobrow BJ, Chikani V, Sotelo M, Gaither J, Viscusi C, Harden D, Denninghoff KR: The Association Between Prehospital Glasgow Coma Scale and Trauma Center Outcomes in Victims of Moderate and Severe TBI: At Statewide Trauma System Analysis. Presented to the Annual Scientific Congress of the International Brain Injury Association, Edinburgh, Scotland, March 22-24, 2012.

Spaite DW, Bobrow BJ, Stolz U, Gaither J, Sherrill D, Viscusi C, Denninghoff KR: Before-After Cohort Model for Evaluating the Impact of Implementing the Prehospital Guidelines for Severe TBI in a Statewide EMS System: The EPIC Study. Presented to the Annual Scientific Congress of the International Brain Injury Association, Edinburgh, Scotland, March 22-24, 2012.

Curriculum Vitae  
Daniel Spaite, MD

Spaite DW, Stolz U, Bobrow BJ, Chikani V, Sotelo M, Gaither JB, Viscusi C, Harden D, Denninghoff KR: The Association Between Prehospital Glasgow Coma Scale and Trauma Center Outcomes in Victims of Moderate and Severe TBI: At Statewide Trauma System Analysis. Presented to the Annual Scientific Meeting of the Society for Academic Emergency Medicine, Chicago, Illinois, May 9-12, 2012.

Spaite DW, Bobrow BJ, Denninghoff KR, Gaither J, Viscusi C, Stolz U: An EMS Agency-Public Health-University Partnership Model for the Human Subjects Approach to Evaluating the Implementation of Prehospital Evidence-Based Guidelines. Presented to the Annual Scientific Meeting of the Society for Academic Emergency Medicine, Chicago, Illinois, May 9-12, 2012.

Spaite DW, Bobrow BJ: "Evaluating the Impact of Implementing the EMS Traumatic Brain Injury Guidelines: The EPIC Study." Presented to the ACEP Scientific Assembly Research Forum. October 9, 2012, Denver, Colorado (Invited).

McCarty K, Roosa J, Kitamura B, Page R, Roque P, Silver A, Spaite DW, Stolz U, Vadeboncoeur T, Bobrow B: Ventilation Rates and Tidal Volumes During Emergency Department Cardiac Resuscitation. Presented to the European Resuscitation Congress, Vienna, Austria, October 18-20, 2012.

Spaite DW, Stolz U, Murphy RA, Karamooz M, Silver A, Tobin J, Mullins T, Ewy GA, Bobrow BJ: Correlations Between CPR Quality Metrics and End-Tidal CO<sub>2</sub> in Out-of-Hospital Cardiac Arrest. Presented to the European Resuscitation Congress, Vienna, Austria, October 18-20, 2012.

Spaite DW, Bobrow BJ, Stolz U, Chikani V, Humble W, Mullins T, Mullins M, Stapczynski JS, Kern K, Ewy GA: System-wide Regionalization of EMS and Hospital Care for Out-of-Hospital Cardiac Arrest: Association with Improved Survival and Neurologic Outcomes. Presented to the European Resuscitation Congress, Vienna, Austria, October 18-20, 2012.

Stolz U, Murphy RA, Panchal A, Silver A, Vadeboncoeur T, Welch A, Nunez M, Bobrow BJ, Spaite DW: The Effect of CPR Quality on Survival and Neurological Outcome after Out-of-Hospital Cardiac Arrest. Resuscitation Science Symposium, American Heart Association Annual Meeting. November 3-4, 2012, Los Angeles, California.

Dameff C, Tully J, Murphy RA, Dunham A, Panczyk M, Stolz U, Tobin J, Karamooz M, Spaite DW, Bobrow BJ, Ewy GA: The Impact of the AHA Guidelines on Dispatch-Assisted Cardiopulmonary Resuscitation. Resuscitation Science Symposium, American Heart Association Annual Meeting. November 3-4, 2012, Los Angeles, California.

Murphy RA, Dunham A, Tully J, Dameff C, Panczyk M, Wasick D, Spaite DW, Bobrow BJ: Primary Reasons Bystanders Do Not Perform CPR When Receiving Dispatcher Instructions. Resuscitation Science Symposium, American Heart Association Annual Meeting. November 3-4, 2012, Los Angeles, California.

Curriculum Vitae  
Daniel Spaite, MD

Vadeboncoeur T, Murphy RA, Tobin J, Venuti M, Spaite DW, Karamooz M, Silver A, Roque P, Stolz U, Bobrow BJ: The Association of Preshock Pause and Survival from Out-of-Hospital Cardiac Arrest. Resuscitation Science Symposium, American Heart Association Annual Meeting. November 3-4, 2012, Los Angeles, California.

Tully J, Dameff C, Murphy RA, Dunham A, Panczyk M, Stolz U, Tobin J, Kotsur B, Karamooz M, Spaite D, Bobrow B: A Standardized Template for Measuring and Reporting Dispatch Pre-arrival CPR. Resuscitation Science Symposium, American Heart Association Annual Meeting. November 3-4, 2012, Los Angeles, California.

Roosa J, Kitamura B, McCarty K, Page R, Roque P, Silver A, Spaite DW, Stolz U, Vadeboncoeur T, Bobrow BJ: Does Chest Compression-Only CPR Provide Meaningful Gas Exchange in Humans? Resuscitation Science Symposium, American Heart Association Annual Meeting. November 3-4, 2012, Los Angeles, California.

Spaite DW: Evaluating the Impact of the EMS TBI Guidelines Across Arizona: The EPIC Study. Resuscitation Science Symposium, American Heart Association Annual Meeting. November 3-4, 2012, Los Angeles, California. (Invited)

Murphy RA, Spaite DW, Stolz U, Smith G, Silver A, Karamooz M, Mullins M, Tobin J, Bobrow BJ: Evaluation of End-Tidal CO<sub>2</sub> Levels Before, During, and After Return of Spontaneous Circulation in Out-of-Hospital Cardiac Arrest. Presented to the National Association of EMS Physicians, January 10-12, 2013, Bonita Springs, Florida.

Spaite DW, Chikani V, Bobrow BJ, Sotelo M, Barnhart B, Denninghoff KR, Gaither JB, Viscusi C, Adelson DP, Sherrill D, Harden D, Stolz U: The Influence of Prehospital Hypotension and Hypoxia on Outcomes in Patients with Major Traumatic Brain Injury. Presented to the National Association of EMS Physicians, January 10-12, 2013, Bonita Springs, Florida.

Spaite DW, Bobrow BJ, Stolz U, Chikani V, Humble W, Mullins T, Mullins M, Stapczynski JS, Kern K, Ewy GA: System-wide Regionalization of EMS and Hospital Care for Out-of-Hospital Cardiac Arrest: Association with Improved Survival and Neurologic Outcomes. Presented to the National Association of EMS Physicians, January 10-12, 2013, Bonita Springs, Florida.

Spaite DW, Stolz U, Murphy RA, Karamooz M, Silver A, Tobin J, Mullins T, Ewy GA, Bobrow BJ: Correlations Between CPR Quality Metrics and End-Tidal CO<sub>2</sub> in Out-of-Hospital Cardiac Arrest. Presented to the National Association of EMS Physicians, January 10-12, 2013, Bonita Springs, Florida.

Spaite DW, Gaither J: The Intubation/Hyperventilation Paradox: Balancing the Potential Risks and Benefits of Prehospital Intubation in Traumatic Brain Injury. Presented to the National Association of EMS Physicians, January 10-12, 2013, Bonita Springs, Florida. (Invited)

Curriculum Vitae  
Daniel Spaite, MD

Spaite DW, Chikani V, Bobrow BJ, Stolz U, Viscusi C, Adelson PD, Sotelo M, Barnhart B, Gaither JB, Sherrill D, Denninghoff KR: Prehospital Glasgow Coma Scale and Risk Stratification in Major Pediatric Traumatic Brain Injury: Association With Mortality and Non-Mortality Outcomes. Presented to the Society for Academic Medicine, May 15-18, 2013, Atlanta, Georgia.

Spaite DW, Chikani V, Bobrow BJ, Stolz U, Sherrill D, Sotelo M, Barnhart B, Gaither JB, Mullins T, Humble W, Denninghoff KR: The Influence of Prehospital Hypotension and Hypoxia on Non-mortality Outcomes in Moderate and Severe Traumatic Brain Injury: Implications for Implementing the EMS TBI Management Guidelines. Presented to the Society for Academic Medicine, May 15-18, 2013, Atlanta, Georgia.

Spaite DW, Stolz U, Bobrow BJ, Chikani V, Sherrill D, Sotelo M, Barnhart B, Gaither JB, Mullins T, Humble W, Denninghoff KR: The Synergistic Effect of Prehospital Hypotension and Hypoxia in Major Traumatic Brain Injury: Profound Impact on Mortality. Presented to the Society for Academic Medicine, May 15-18, 2013, Atlanta, Georgia.

Safdar B, Stolz U, Stiell IG, Cone DC, Bobrow B, de Boer M, Dreyer J, Maloney J, Spaite DW: Gender and Survival In Out-of-hospital Cardiac Arrest (OHCA): Results From The OPALS (Ontario Prehospital Advanced Life Support) Study. Presented to the Society for Academic Medicine, May 15-18, 2013, Atlanta, Georgia.

## **Other**

### **Position Papers**

Spaite DW: The wilderness prehospital management of head and spinal injuries. Position paper for the Wilderness Medical Society. Wilderness Medicine; April, 1989

### **Full-length Publications in Non-Referred Journals**

Keeley KT, Criss EA, Spaite DW, Valenzuela TD: Railroad injuries: Mechanisms, injury patterns, and prehospital management. Emergency Medical Services 1990;19:28-31.

Keeley KT, Valenzuela TD, Criss EA, Spaite DW: Prehospital Information Management. (Submitted)

## **GRANTS**

### **Funded: Current**

PA-07-070: NIH/NINDS:  
3R01NS071049-S1

Spaite/Bobrow (Co-PIs)

3/1/2012-2/29/2016

Curriculum Vitae  
Daniel Spaite, MD

Impact of Implementing the EMS Traumatic Brain Injury Treatment Guidelines in Children: The EPIC4Kids Study.

Aim: To test the hypothesis that statewide implementation of the nationally-vetted, evidence-based TBI guidelines *in the 911 EMS system* will significantly reduce mortality and improve non-mortality outcomes in children (age < 18) with severe TBI. \$851,391

--Co-Investigators: Stolz, Denninghoff, Adelson, Viscusi, Sherrill

1R01NS071049-01A1: NIH/NINDS Spaite/Bobrow (Co-PIs) 3/1/2011-2/29/2016  
Impact of Implementing the EMS Traumatic Brain Injury Treatment Guidelines.

Aim: To test the hypothesis that statewide implementation of the nationally-vetted, evidence-based TBI guidelines *in the 911 EMS system* will significantly reduce mortality and improve non-mortality outcomes in adults and mature children (age ≥18) with severe TBI \$2,773,320.

--Role: Co-Principal Investigator

Medtronic Research Foundation (Bobrow/Spaite/Ewy: Co-PIs) 10/2010-9/2015

HeartRescue Grant: This grant funds the implementation and analysis of implementation of broad, widespread changes in the prehospital and in-hospital critical care of out-of-hospital cardiac arrest as a statewide effort in Arizona. This includes the integration of OHCA care across nearly 100 EMS agencies and over 30 hospitals. \$2,500,000

--Role: Co-Principal Investigator

Philips Corporation (Co-PIs: Spaite, Bobrow) 8/2012-7/2017

Development of Real-Time AudioVisual Feedback for Improving EMS Care of Intubated TBI Patients

Aim: To develop RTAVF using End-Tidal CO<sub>2</sub> for improving the ventilatory management of severe TBI patients who are intubated. Total Funding: \$400,000

Role: Co-PI (Co-Is: Stolz, Denninghoff, Gaither)

--ZOLL Medical (Co-PIs: Bobrow, Spaite) 8/2012-7/2017

Development of Real-Time AudioVisual Feedback for Improving EMS Care of Intubated TBI Patients

Aim: To develop RTAVF using End-Tidal CO<sub>2</sub> for improving the ventilatory management of severe TBI patients who are intubated. Total Funding: \$425,000

Role: Co-PI (Co-Is: Stolz, Denninghoff, Gaither)

U01NS056975/3000691503-RPT07 NINDS Spaite (PI) 1/2008 – 6/2012

NIH/NINDS: Rapid Anticonvulsant Medication Prior to Arrival Trial (RAMPART).

This trial, a study of the NETT/AzNETT, is an exception from informed consent (EFIC) RCT comparing IM midazolam and IV lorazepam in the prehospital treatment of status epilepticus. As the PI, Dr. Spaite has been responsible for developing the EMS collaborations, leading the EFIC process, developing relationships with all hospitals receiving study patients, implementation of the trial, EMS personnel training, study protocol compliance, and overall leadership of all aspects of the trial at the AzNETT hub. \$450,000 (direct costs)

Role: Site PI

Curriculum Vitae  
Daniel Spaite, MD

1U0NNS062778-01/3001300049-PIII; NCT00822900 NINDS: Spaite (Site-PI) 2/2009 - 2/2014  
NIH/NINDS: PROTECT

This is a clinical trial designed to determine the effectiveness of intravenous progesterone initiated within 4 hours of injury and administered for 96 hours as compared to placebo at improving functional outcome in patients with moderate to severe traumatic brain injury.

Role: Site Co-I at several study hospitals

### Completed

5U10NS058962 NINDS Denninghoff (PI) 9/1/06-8/31/11  
NIH/NINDS: Arizona Neurological Emergencies Treatment Trial (AzNETT)

This five year grant supports the Arizona neurological emergencies clinical trials hub at the University of Arizona with coordinated research in several EMS systems and many hospitals in across the state.

AzNETT is one of 17 centers in the nation. \$1,500,000 (direct costs).

Role: Co-Investigator

Bobrow (PI) 1/1/2009-6/30/2010

American Heart Association: Comparison of the Effectiveness of Ultra-Brief and Brief Hands-Only CPR Video Training With and Without Psychomotor Skill Practice for Lay Responders: a Controlled Randomized Study

This study is comparing the effectiveness of 3 different approaches to very short Hands-Only CPR training in medical lay persons. (January, 2009-December, 2010. \$100,000)

Role: Co-Investigator

National Highway Traffic Safety Administration, U.S. Department of Transportation. DTNH22-98-05117. Emergency Medical Services Cost Analysis Project. 10/1/03-9/30/08. \$800,000 (5 Years).

--Role: Co-investigator.

Ontario Prehospital Advanced Life Support Study: The Evaluation of Prehospital ALS on the Outcomes of Major Trauma Patients. Health Ministry, Province of Ontario, Canada. 2000-2009. \$800,000 (10 Years).

--Role: Co-Investigator

Co-Investigator: \$518,124 (3 Years). Ontario Prehospital Advanced Life Support Study for Critically Ill and Injured Pediatric Patients. HSR-117148: Canadian Institutes of Health Research. 9/1/03-8/31/06. (5% effort)

NIH/NICHHD: Co-Investigator: \$432,000 (2 Years). Pediatric Critical Care and Interventions in Childhood Cardiopulmonary Arrest. RFA-HD-02-026: National Institutes of Health-NICHHD. 9/1/03-8/31/05. (5% effort)

Curriculum Vitae  
Daniel Spaite, MD

Co-Principal Investigator: \$700,000 (4 Years). Emergency Medical Services Cost Analysis Project. National Highway Traffic Safety Administration, U.S. Department of Transportation. Contract No. DTNH22-98-05117. 10/1/03-9/30/07. (10% effort)

Co-Investigator: \$800,000 (8 Years). Ontario Prehospital Advanced Life Support Study: The Evaluation of Prehospital ALS on the Outcomes of Major Trauma Patients. Health Ministry, Province of Ontario, Canada. 2000-2009. (5% effort)

Co-Investigator: \$101,418 (5 Years). Cost-Effectiveness Analysis of Rapid Defibrillation: Ancillary Economic Study of the Ontario Prehospital ALS Project. Ontario Provincial Ministry of Health, Ontario, Canada. 7/1/00-6/30/05. (5% effort)

Co-Investigator: \$101,000 (3 Years). The Ontario Prehospital Advanced Life Support (OPALS) Study Chest Pain Sub-study. Provincial Ministry of Health, Ontario, Canada. 7/1/01-6/30/04. (5% effort)

Co-Investigator: \$16,000,000 (12 Years). "A prospective, multicenter trial of the impact of prehospital advanced life support on the outcome of out-of-hospital cardiac arrest in Ontario, Canada." Ontario Ministry of Health, Health Services Research Program. Funding Date: 8/1/94 - 7/31/2005. (5% effort)

Co-Investigator: \$120,232 (4 Years). The trauma evaluation of the Ontario prehospital advanced life support project. Ontario Health Ministry, Health Services research program. 8/1/98-7/31/03. (2% effort)

Co-Investigator: \$408,090 (3 years). The Ontario Prehospital ALS Study for Cardiac Arrest and Critical Care Patients – Phase III. Ontario Health Ministry. Ontario Canada. 7/1/00-6/30/03. (5% effort)

Co-Investigator: \$650,124 (6 Years). Development of the foundation for outcomes research in out-of-hospital emergency medical services. U.S. Department of Transportation, National Highway Traffic Safety Administration. Funding Date: 7/1/96-6/30/02. (5% effort)

Co-Investigator: \$12,000. Analysis of the impact of ALS prehospital care on trauma patients in the OPALS study. Ontario Health Ministry, Health Services Research Program. Funding Date: 8/1/98-7/31/02. (1% effort)

Principal Investigator: \$567,091 (3 years). Educational program to improve prehospital emergency medical care for children with special health care needs. Robert Woods Johnson Foundation. Funding Date: 8/1/97-7/31/01. (10% effort)

Principal Investigator: \$300,000 (2 years). Evaluation of the impact of enhancing EMS systems on the outcome of clinical entities in children. U.S. Department of Health and Human Services, Maternal and Child Health Bureau. Funding Date: 10/1/95 - 9/30/97.



Curriculum Vitae  
Daniel Spaite, MD

Co-Investigator: \$12,000 (1 Year). Learner-centered distance education for emergency care providers in the community: Children with special health care needs. St. Luke's Charitable Health Trust. Funding Date: 10/1/76-9/30/97.

Co-Investigator: \$278,694 (2 Years). "Improvement of the Quality of prehospital EMS in rural Arizona communities." Flinn Foundation. Funding Date: 10/1/94 - 9/30/96.

Principal Investigator: \$625,000 (3 Years). "Evaluation of the impact of pediatric critical care training and injury prevention education on EMS care and injury incidence in Arizona." EMS for Children Grant, U.S. Department of Health and Human Services, Material and Child Health Bureau. Funding Date: 10/1/92 - 9/30/95.

Principal Investigator: \$36,478 (2 Years). "Utilization of a prehospital database for development and evaluation of community-based head injury prevention projects." Centers for Disease Control and the Office of Disability Prevention, Arizona Department of Health Services. Funding Date: 10/1/93 - 9/30/94. Contract #30-4035.

Co-Investigator: \$48,006 (1 Year). "Telecommunications system development for a national EMS database." National Highway Traffic Safety Administration through the Association of Medical Emergency Informatics. Funding Date: 1/1/94.

Principal Investigator: \$61,540 (1 Year). "The impact of protocol-based prehospital medical record standards on data entry compliance and documentation quality for injured patients in a rural EMS system." U.S. Department of Health and Human Services, Health Resources and Services Administration, Division of Trauma and EMS. Grant #BHR1J0011-01-0. Funding 9/1/95-9/30/96

Principal Investigator: \$66,000 (2 years). "A Specific Time-Sequence Evaluation of Advanced Life Support Prehospital Care in Arizona." Arizona Department of Health Services. Funding date 1/1/89.

Principal Investigator: \$200 (1 year). "Performance of Prehospital Bystander CPR by Medical Professionals: The Impact of the AIDS Epidemic." Department of Surgery, University of Arizona. Funding Date 4/89.

Co-Investigator: \$544,167 (3 years). The purpose of the study is to form a universal trauma and prehospital data base for epidemiologic analysis in order to evaluate the effectiveness of specific attempts at injury control in the population. Centers for Disease Control (Approved 1/87, funding not made available).

Co-Investigator: \$2100 (1 year). "Quantitative Analysis of Nitrostat Tablets and Nifedipine Capsules Exposed to Environmental Temperatures." Arizona Department of Health Services. Funding Date 1/1/89.

