

CURRICULUM VITAE

12.27.2007

PERSONAL DATA

NAME: Ralph J. Frascone, MD, FACEP

ADDRESS

Professional Address: Regions Hospital
Department of Emergency Medicine
640 Jackson Street
St. Paul, MN 55101

EDUCATION

UNDERGRADUATE: St. John's University 1966-1970
Collegeville, MN
B.A.

POSTGRADUATE: University of Minnesota 1970-1974
School of Medicine
Minneapolis, MN
Doctor of Medicine

POSTDOCTORAL TRAINING

INTERNSHIP: St. Paul Ramsey Medical Center 1974-1975
St. Paul, MN

RESIDENCY: St. Paul Ramsey Medical Center 1975-1977
St. Paul, MN
Family Practice Residency

ACADEMIC APPOINTMENTS

Diplomat, American Board of Family Practice 1977
>Recertified 1983

Clinical Assistant Professor 1982-1989
Department of Family Practice and Community Health
University of Minnesota Medical School

Clinical Associate Professor 1989-1994
Department of Family Practice and Community Health
University of Minnesota Medical School

Assistant Professor of Emergency Medicine 1994-2007
University of Minnesota Medical School

Associate Professor of Emergency Medicine 2007-Present
University of Minnesota Medical School

Diplomat, American Board of Emergency Medicine	1982
>Recertified	2001

ACADEMIC ADMINISTRATIVE APPOINTMENTS

Head, Department of Emergency Medicine St. Croix Regional Medical Center	2001
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CLINICAL/HOSPITAL APPOINTMENTS

Medical Director Emergency Medical Services Regions Hospital, St. Paul, MN	1992-Present
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Medical Director Life Link III St. Paul, MN	1990-Present
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Senior Staff Physician Department of Emergency Medicine Regions Hospital, St. Paul, MN	1977-Present
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Co-Medical Director Emergency Medical Services St. Paul-Ramsey Medical Center St. Paul, MN	1985-1992
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Associate Medical Director Life Link III St. Paul, MN	1980-1989
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Associate Staff Physician Department of Emergency Medicine St. Paul-Ramsey Medical Center St. Paul, MN	1975-1977
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Minnesota services under Medical Direction:

Afton Alps Ski Patrol, American Red Cross, Cottage Grove Public Safety, Hugo Fire Department, Lakeview EMS, Life Link III, Lower St. Croix Fire, Mahtomedi Fire, Maplewood Fire and Police Department, Marine on St. Croix Ambulance, Oakdale Fire Department, St. Paul Fire Department, White Bear Lake Fire Department, Woodbury Public Safety.

Wisconsin services under Medical direction:

North Land Ambulance, St. Croix EMS-Hudson, Unity Ambulance

CONSULTING POSITIONS

Western Wisconsin services under Medical Direction consultation:

Baldwin Ambulance Service, Clear Lake Ambulance, Ellsworth Ambulance, Elmwood Ambulance, Glenwood City Ambulance, New Richmond Ambulance, Osceola Ambulance, Prescott Fire Association, River Falls Ambulance, St. Croix Valley EMS, Spring Valley Ambulance, Trollhaugen Ski Patrol, Woodville Area Ambulance

SCIENTIFIC ACTIVITIES

Reviewer, Chest	1993-Present
Book Reviewer, Annals of Emergency Medicine	1994

GRANT SUPPORT

U.S. Department of Defense Research Grant No. W81XWH-04-C-0022: Evaluation of an Impedance Threshold Device (ITD) in the Emergency Department for Treatment of Hypotension. Amount of grant: \$30,000	2005-2006
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National Institute of Health(NIH) funded CPR trial. Regions Emergency Medical Services is participating in a 3 year multi-center study to determine if survival rates and brain recovery improve in cardiac arrest patient when special devices are used to assist in CPR. Regions EMS will compare the effectiveness of standard CPR by itself to CPR coupled with two investigational devices-the active compression depression (ACD) and impedance threshold devices (ITD) in the ResQTrial. Amount of grant is \$600,000.	2005-2009
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Guidant Foundation. The ResQTrial. One year \$20,000. Principle Investigator.	2004-2005
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HealthPartners Research Foundation. The ResQTrial One year \$25,000. Principle Investigator.	2004-2006
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St. Paul Firefighters Local 21. The ResQTrial. Three years \$20,000. Principle Investigator.	2002-2005
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Metropolitan Regional Project. The ResQTrial. Two years, \$38,000. Principle Investigator.	2004-2006
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CERTIFICATION AND LICENSURE

Certification

Board Certified Emergency Medicine	2001
Advanced Trauma Life Support (ATLS) Instructor	2/2009
Advanced Cardiac Life Support (ACLS)	12/2007
Pediatric Advanced Life Support (PALS)	10/2007

DEA Registration	9/30/2010
DEA Registration, Wisconsin	9/30/2009

Licensure

Minnesota Medical License	1/31/2008
Wisconsin Medical License	10/31/2009

HONORS AND AWARDS

Honorary St. Paul Firefighter	1986
Pro of the Month Regions Hospital Employee of the Month	2/1992
Medical Director of the Year Minnesota Ambulance Association	1999
“Dr. R.J. Frascone Day” Proclamation for Dedication to EMS Ramsey County Board of Commissioners	5/2000
Profile of R.J. Frascone, MD. Instrument for Change. <i>Journal of Emergency Services</i> Published in October 2005. Pages 31-32 (Leaders in EMS Article)	2005

MEMBERSHIP AND OFFICES IN PROFESSIONAL SOCIETIES

National Association of Emergency Medical Services Physicians (NAEMSP)	1986-2006
Air Medical Physicians Association	1986-2006
American College of Emergency Physicians Minnesota Chapter, ACEP	1977-2006
Society for Academic Emergency Medicine (originally Society for Teaching of Emergency Medicine)	1977-2006

TEACHING AND MENTORING ACTIVITIES

Research Project Advisor - Lectures & Presentations

Regions Resident Conference at Regions Hospital Presentation: EMTALA	3/2006
Regions Resident Conference at Regions Hospital Presentation: The ResQ Trial	8/2005
Regions Hospital Conference at Regions Hospital Presentation: EMS – Mass Casualty	1/2003
Perry Conference at Regions Hospital. Lecture on “Trauma Systems: Where Does Minnesota Fit”	10/2003
Educator for Emergency Department Eye Workshop Series	8/1996
Presented <i>EMS Medical Command</i> for Ramsey Emergency Department conference series.	7/1996

Research Project Advisor

Cynthia Kelmenson, MD - Resident, Regions Hospital
Department of Emergency Medicine

Christopher Russi, MD – Resident, Regions Hospital
Department of Emergency Medicine

Peter Tanghe, MD – Resident, Regions Hospital
Department of Emergency Medicine

Martin Richards, MD – Resident, Regions Hospital
Department of Emergency Medicine

Josh Salzman, MA – Research Coordinator, Regions
Hospital Emergency Medical Services

Terry Provo, BA, EMT-P – Coordinator, Regions Hospital
Emergency Medical Services, now of Advanced Circulatory
System Incorporated.

Dawn Bitz, BA, EMT-P – Coordinator, Regions Hospital
Emergency Medical Services, now of Boston Scientific.

Joseph Jensen, RN EMT-P – Coordinator, Regions Hospital
Emergency Services

Kent Griffith, BA RN EMT-P – Coordinator, regions Hospital
Emergency Services

EXTRAMURAL INVITED PRESENTATIONS

“Avian Flu Awareness Training” RiverCentre, St. Paul, MN	6/26 & 7/11 2006
MSFCA (Fire Chief’s Convention) Lecture: New Diseases We Can All Worry About” Duluth, MN	10/2003
Homeland Security Public Forum: Is Minnesota Prepared. Moderated by Senator Mark Dayton. Held at Fort Snelling, MN	3/2003
“Bioterrorism/MCI With an Attitude” A Ramsey celebration honoring Dr. John F. Perry, Jr. Embassy Suites Hotel, St. Paul, MN	10/2002
“Domestic Preparedness for Terrorism” 14 th Annual Burn and Wound Care Conference. Holiday Inn, St. Paul, MN	2/2002
Presented <i>Near Drowning and the EMT</i> Southeast EMS Region Award Meeting	5/2001
Presented “Initial Assessment and Management of The Burn Patient” at the 12 th Annual Burn Care Today, St. Paul, MN	5/2000
Presented “EMS Legislation: Politics and Policies” as part of a panel discussion with Senator Rod Grams (Rep-MN) at NAEMSP Winter Assembly Ft. Lauderdale, FL	1/1998

OTHER PRESENTATIONS

St. Paul BOMA “Life Saving Techniques – ResQ Trial presentation.	10/2005
HealthPartners Research Foundation Celebration of Research – Poster Presentation: EZ-IO – a Field Trial	9/2005
HealthPartners Research Foundation Celebration of Research – Poster Presentation: The ResQ Trial	9/2005
Regions ED Senior Staff Meeting at Regions Hospital In-service on the ResQ Trial	9/2005
2005 Minnesota Medical Directors Retreat. Abstract Presentation: The ResQ Trial, Arrowwood Conference Center, Alexandria, MN	9/2005

2005 Minnesota Medical Directors Retreat. Abstract Presentation: The EZ-IO, Arrowwood Conference Center, Alexandria, MN	9/2005
2005 Minnesota Medical Directors Retreat. Abstract Presentation: The EZ-IO: A Black and Decker Approach To IO. Arrowwood Conference Center, Alexandria, MN	9/2005
St. Paul City Council Meeting. Presentation – The ResQ Trial. City Hall, St. Paul, MN	8/2005
Community Consultation Meetings(9am and 6pm) Presentation: The ResQ Trial Kelly Inn, St. Paul, MN	8/2005
Ramsey County Board of Commissioners. Presentation: The ResQ Trial. City Hall, St. Paul, MN	7/2005
Air Medical Conference in Barcelona, Spain. Poster Presentation on Bispectral Index As a Measure of Adequate Sedation During Aeromedical Transport.	6/2005
Air Medical Conference in Barcelona, Spain. Lecture On “CPR: State of the Art”	6/2005
WITC Emergency Services Conference “Critical Interventions: New Research Changes Everything”. Telemark Lodge, Cable, WI	3/2005
EMS Medical Directors’ Conference. Panel on “Big Bang EMS”. Arrowwood Conference Center, Alexandria, MN	9/2004
Ambulance Medical Director Retreat. Point-Counterpoint discussion on CPAP/Bipap, non-invasive ventilation in the pre-hospital setting; use of pre-hospital thrombolytics; pelvic stabilization and exam; approach to disaster management-START-Israeli; scene safety-What Is the reality? Why RSI in the city? An Interesting Case of Penetrating Chest Trauma. Breezy Point, MN	9/2003
“Field Trial of the F.A.S.T.1 Adult Intraosseous Infusion System by EMT-Paramedics and EMT-Intermediate Personnel”. Abstract presented at NAEMSP Conference. Panama City Beach, FL	1/2003
“What is the Appropriate Training Program for Introduction of Ultrasound in a Helicopter Program”. Abstract presented at Air Medical Transport Conference.	11/2002
“Point-Counterpoint” Ambulance Medical Director	9/2002

Retreat. Alexandria, MN

Arrowhead EMS Conference 9/2001
Duluth, MN

Presentations conducted at conference:

- 9/8: “No More Room at the Inn” How to deal with Crisis situations
- 9/8: Moderator: Hospital diversions from rural and urban perspectives
- 9/8: Intraosseous (IO) Abstract
- 9/8: ACD Update
- 9/9: IO Case Study
- 9/9: Marathon Runner

Poster Presentation on “The Effects of a Hospital Diversion Policy in an Urban Setting”. HealthPartners Research Foundation’s Celebration of Research 2000. 9/2000

Case Presentation “Lightning Strike: An Unusual Case Of Third Degree Burns”. Tenth Annual Director’s Retreat, Alexandria, MN. 9/2000

Poster Presentation “RSI: A Pilot Training Project” Frascone RJ, Kaye KL, Gisch TM. NAEMSP Winter Meeting. Marco Island, FL 2/1999

Presented “Plain Talk About OBRA/COBRA”. 18th Annual Arrowhead EMS Conference. Duluth, MN 2/1998

Presented “Legislative Update” as part of a Panel Discussion, Annual Arrowhead EMS Conference Duluth, MN 1/1997

Presented “It Was a Miracle, But No Accident-1996 Fascinoma Train Derailment” at NAEMSP Winter Assembly. Won second place in the national Competition (Multi-media presentation) 1/1997

Presented OBRA/COBRA for Polk County Community Grand Rounds. 4/1996

Presented *State of Minnesota EMS Regulatory Board* for Southeast EMS Region. 4/1996

Presented “Near Drowning” for Ramsey Emergency Department Conference Series. 2/1996

Presented *State of Minnesota, EMS Regulatory Board and Train Derailment Incident* for Medical Directors 9/1995

Retreat.

COMMITTEE AND ADMINISTRATIVE SERVICE

Regions Hospital

Medical Practices Committee	1/82-1/83
Trauma Committee	12/90-Present
Trauma QI Committee	12/90-Present
Disaster Committee, Medical Director	1/95-Present
Medical Executive Committee	1/95-1/97
Clinical Research Sub-Committee	2002-2005

Ramsey Clinic

Nominating & Review Committee	1/86-5/92
Fringe Benefit Committee	1/86-1/98
Search Committee for Director of Trauma Services Department of Surgery	1/92-1/93

Emergency Medicine Department, Regions Hospital

Emergency Department Equipment Committee	1982-2002
Billing/Reimbursement Committee	1/83-1/94
Physician Staffing Committee	2/84-1/94
Emergency Department Design Team	3/92-6/95

American College of Emergency Physicians

Legislative Affairs Committee Chair	4/94-4/02
Minnesota Chapter Board of Directors	4/94-5/96
	7/04-Present
Minnesota Chapter EMS Committee	10/99-Present
Legislative Affairs Committee Co-Chair	2002-2005
Disaster Medical Assistance Team (DMAT) Board Member	3/05-Present

State of Minnesota

EMS Regulatory Board MDSAC Member	1992-1995
Metro Regions EMS Committee	11/93-12/95
Metro Physician Delegate Vice Chair	
Department of Health	2/94-6/94
Medical Directors Work Group for Infectious Disease	
EMS Regulatory Board Member	1/96-8/97
EMS Regulatory Board Chair, Legislative Affairs Committee	7/96-8/97

EMS Regulatory Board	12/96-12/97
Vice Chair, Medical Direction Committee	
Medical Director's Retreat-Program Committee	1997
EMS Regulatory Board, Chair	8/97-4/00
Trauma System Core Workgroup	1/01-1/05
State of Minnesota	

City of St. Paul

St. Paul Fire Department	1/89-1/90
Ten Year Master Plan Implementation Committee	
St. Paul Fire Department	4/89-Present
Emergency Medical Dispatch Committee	
Fire Chief Selection Committee	12/91-5/03
St. Paul Fire Department	1/95-Present
Labor Management Committee Member	

Metro EMS

Metro EMS Region Committee Member	1/93-Present
Metro EMS Region Committee Vice Chair	2/94-12/98
Metropolitan Medical Response System (MMRS) Steering Committee Member	2003-Present

East Metro Emergency Medical Services System

East Metro Pre-Hospital Advisory Committee Chair	2/85-Present
Radio Operations Committee	8/85-Present

Ski Patrol

Afton Alps ski Patrol Medical Advisor	1984-Present
Afton, MN	
Western Region/Central Division National Ski Patrol Medical Advisor	11/89-Present
Trollhaugen Ski Patrol Medical Director	11/95-Present
Dresser, WI	

American Red Cross-St. Paul Chapter

Medical Director for EMS Section	6/87-Present
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Epilepsy Foundation of Minnesota

EMS Training Committee	1/98-2001
Steering Committee Member	1/98-2001
Education Committee Member	1/98-2001

Others

Friendship Ambulance	6/87-6/88
Board of Directors and Medical Director	
National Red Cross First Aid Advisory	6/87-Present
Medical Director for EMS (Athletes and Spectators) Olympic Festival Medical Director	1990
Life Link II Medical Advisory Committee Chair	1290-Present
Life Link II Board Member	1/90-Present
City of Woodbury/Woodbury Ambulance Council Task Force for ALS	2/90-2/93
Life Link III CEO Search Committee	4/92
Cottage Grove Police Chief Selection Committee	1998
Cottage Grove Police Chief Selection Committee	2001
International Special Olympics Medical Committee	1991
Citizens For a Safer Minnesota Board Member	1992-1993
Minnesota State Fair Medical Director	1990-Present
Minnesota State Fire Chief's Association EMS Committee Member	1/92-Present
National Association of Emergency Medical Services Physicians Program Committee	6/92-8/93
Washington County EMS Advisory Committee	1994-Present
Medical Director, Inver Hills Community Emergency Health Services	4/95-4/97
Metro Region EMS Committee	1995-Present
East Metro Medical Director	
National Association of Emergency Medical Services Physicians, Federal Legislation Committee Co-Chair	7/97-2001
Health Law Committee, Member	10/97-Present
William Mitchell College of Law	
American Heart Operation Heartbeat Chair	2002-2004
Washington County Public Health Emergency Preparedness Advisory Committee	2004-Present
American Heart Legislative Committee	2004-Present

ANNOTATED BIBLIOGRAPHY

Peer-Reviewed Publications

Kelmenson C, Salzman JG, Griffith KR, Kaye K, **Frascone, RJ**. Is OR experience necessary for a successful rapid sequence induction program? *J Emerg Med Serv*. 2008. In press.

Salzman JG, **Frascone RJ**, Godding BK, Provo TA, Gertner E. Implementing Emergency Research Requiring Waiver of Informed Consent, Community Consultation, and Public Disclosure: Guidance Based on Experience. *Ann Emerg Med*. Oct 2007;50(4):448-55.

Frascone RJ, Jensen JP, Kaye K, Salzman JG. Consecutive Field Trials Using Two Different Intraosseous Devices. *Prehosp Emerg Care*. 2007 Apr-Jun;11(2):164-71.

Salzman JG, Aufderheide T, Swor R, Wayne M, Mahoney B, Stahl K, Medado P, Lapsansky J, Vasquez G, **Frascone RJ**. Community consultation and public disclosure: the ResQ Trial experience [Abstract]. *Prehosp Emerg Care*. 2007 Jan-Mar;11(1):118.

Frascone RJ, Jensen JP, Salzman JG, Kaye K. EZ-IO: a field trial [Abstract]. *Prehosp Emerg Care*. 2006 Jan-Feb;10(1):138.

Aufderheide T, **Frascone RJ**, Pirralo R. Resuscitation in 2005: new ways to optimize manual CPR. *Emerg Med Serv*. 2005 Sept;30(10):42-5.

Frascone R, Bitz D, Lurie K. Combination of active compression decompression cardiopulmonary resuscitation and the inspiratory impedance threshold device: state of the art. *Curr Opin Crit Care*. 2004 June;10(3):193-201.

Fringer F, Heegaard W, Dries D, **Frascone R**, Miner, J. Validation of bispectral index monitoring in aeromedical transport [Abstract]. *Acad Emerg Med*. 2004;11(5):586-87.

Provo TA, **Frascone RJ**. 12-lead electrocardiograms during basic life support care. *Prehosp Emerg Care*. 2004 Apr-Jun;8(2):212-6.

Heegaard W, Plummer D, Dries D, **Frascone RJ**, Pippert G, Steel D, Clinton J. Ultrasound for the air medical clinician. *Air Med J*. 2004 Mar-Apr;23(2):20-3

Lurie K, McKnite S, Nadkarni V, Yannopoulos D, Sigurdsson G, Srinivasan V, Marino B, **Frascone RJ**, Dries D, Idris Ahamed. Cardio-Cranial interactions: reduction of elevated intracranial pressure with an inspiratory impedance threshold device in spontaneously breathing pigs after resuscitation from cardiac arrest [Abstract]. *Crit Care Med*. 2003 Dec; Supplement A10.

Frascone RJ, Kaye K, Dries D, Solem L. A successful placement of a sternal intraosseous line through burned skin. [J Burn Care Rehabil](#). 2003 Sep-Oct;24(5):306-8.

Kaye K, **Frascone RJ**, Held T. Prehospital rapid sequence intubation: a pilot training program. *Prehosp Emerg Care*. 2003 Apr-Jun;7(2):235-40.

Plummer D, Heegaard W, Dries D, Reardon R, Pippert G, **Frascone RJ**. Ultrasound in HEMS: Its role in differentiating shock states. *Air Med J*. 2003 Mar-Apr;22(2):33-6.

Frascone RJ, Dries D, Kaye K. ACD + ITV CPR: where are we now. *Scand J Trauma Emerg Med.* 2003;11(1):16-20.

Frascone RJ, Dries D, Gisch T, Kaye K, Jensen J. Obtaining vascular access: is there a place for the sternal IO? *Air Med J.* 2001 Nov-Dec;20(6):20-2.

Dries D, **Frascone RJ**, Molinari P, Heegaard W, Pippert G, Reardon R. Does the ILMA make sense in HEMS? *Air Med J.* 2001 Sep-Oct;20(5):35-7.

Frascone RJ, Gisch TM. Implementation of a subregional trauma system. *Minn Med.* 1999 June;82(6):49-52

Lurie KG, Schultz JJ, Callaham ML, Schwab TM, Gisch T, Rector T, **Frascone RJ**, Long LA. Evaluation of active compression-decompression CPR in victims of out-of-hospital cardiac arrest. *JAMA.* 1994 May;18(271):1405-11.

Gisch TM, Schultz JJ, **Frascone RJ**, Long LA, Lurie KG. Selecting the best endpoint for a cardiac arrest survival/comparison study: lessons from the St. Paul, MN prehospital study. *J Emerg Med Services.* 1994 Feb.

Hankins DG, Carruthers N, **Frascone RJ**, Long LA, Campion BC. Complication rates for the esophageal obturator airway and endotracheal tube in the prehospital setting. *Prehosp Disaster Med.* 1993 Apr-June;8(2):117-21.

Hankins DG, **Frascone RJ**. The helicopter and the EMS system. *Minn Med.* 1988 Nov;71(11):700-02.

Hankins DG, Ebert KD, Siebold CM, Fuller TK, **Frascone RJ**, Campion BC. Hepatitis B vaccine and hepatitis B markers: cost effectiveness of screening prehospital personnel. *Am J Emerg Med.* 1987 May;3:205-6.
Aufderheide TP, **Frascone RJ**, Cicero JJ. Simultaneous bilateral anterior and posterior shoulder dislocations. *Am J Emerg Med.* 1985;4:331-33.

Lamon RP, Cicero JJ, **Frascone RJ**, Hass WF. Open treatment of fingertip amputations. *Ann Emerg Med.* 1983;12:358-60.

Frascone RJ, Cicero JJ, Sturm JT. Pneumopericardium occurring during a high speed motorcycle ride. *J Trauma.* 1983 Feb;23:163-64.

Non-Peer-Reviewed Publications

"**Dr. RJ Frascone Day**" on May, 2000
Proclamation for Dedication to EMS.
Ramsey County Board of Commissioners.

Holton D, Jacobson S, **Frascone, RJ**.
Minnesota Department Highlighted for Its
Role in Exciting new CPR Study.
Minnesota Fire Chief, November/December 2005

Articles and Abstracts Submitted for Publication/Presentation

Salzman J, Aufderheide T, Swor R, Wayne M, Mahoney B, Stahl K,

Medado P, Lapsansky J, Vasquez G, **Frascone RJ**. Community and Consultation and Public Disclosure: The ResQ Trial Experience. Submitted to *NAEMSP* on 8/25/2006.

Salzman J, **Frascone RJ**, Godding B, Provo T, Gertner E. Implementing Emergency Research Requiring Waiver of Informed Consent, Community Consultation, and Public Disclosure: Guidance Based on Experience. Resubmitted to *Annals of Emergency Medicine*.

Frascone RJ, Jensen J, Kaye K, Salzman J. Comparison of Two Intraosseous Devices. Resubmitted to *Prehospital Emergency Care*.

Chapters in Books

Frascone, RJ, Patty, BD; Prehospital Orthopedic Treatment, *Emergency Management of Skeletal Injuries*, Ruiz E, Cicero J, Philadelphia, 1995 Mosby.

Abstracts, Preliminary Communications, Clinical Papers

Frascone RJ, Jensen J, Salzman J, Kaye K, Heegaard W, Pippert G. Abstract submitted: The Use of the EZ-IO™ Intraosseous Device in the Helicopter: A Case Series on March 15, 2006 to Air Medical Transport Conference to be held September 25, 2006 in Phoenix, Arizona. Abstract accepted April, 2006.

Frascone RJ, Heegaard W, Pippert G, Dries D, Molinari P, Salzman, J. Abstract submitted: The Use of Intubating Laryngeal Mask Airway (ILMA) in Helicopter EMS: A Case Series on March 15, 2006 to Air Medical Transport Conference to be held September 25, 2006 in Phoenix, Arizona. Abstract accepted April, 2006. Won best clinical research award.

Frascone RJ, Jensen J, Salzman J, Kaye K. EZ-IO vs. F.A.S.T. 1: A Comparison of Two New Adult Intraosseous Devices. Poster presentation at the National Association of Emergency Medical Services Physicians Annual Meeting, January 19-23, Tuscon, AZ.

Editorials

Frascone, RJ; Quality? I'll know it when I see it. *Chest* 106 (5):1315-16, November 1994