

## CURRICULUM VITAE

### Selim Suner MD, MS, FACEP

*Updated August 11, 2016*

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<http://www.ncbi.nlm.nih.gov/sites/myncbi/1BuIO0CmJ4B5S/bibliography/49833288/public/?sort=date&direction=ascending>  
<https://vivo.brown.edu/display/ssuner>  
<http://www.brown.edu/academics/medical/about/departments/emergency-medicine/disaster-medicine/>

### **EDUCATION**

Undergraduate: Brown University, ScB degree in Biomedical Engineering with Honors, May 1986

Graduate: Brown University, MS degree in Biomedical Engineering, May 1987

Medical School: Brown University School of Medicine, MD degree, May 1992

## **POSTGRADUATE TRAINING**

Residency: Rhode Island Hospital, Emergency Medicine,  
Resident, June 1992-1995

Rhode Island Hospital, Emergency Medicine,  
Chief Resident, June 1995-1996

Fellowship: Rhode Island Hospital, Society for Academic  
Emergency Medicine, Neuroscience Research  
Fellowship, July 1 2003- June 30, 2004.

## **POSTGRADUATE HONORS AND AWARDS**

1. The American Heart Association award "For Lifesaving Efforts on Behalf of Justin Hicks, Christopher Martini and Thomas Martini on Sunday, December 10, 1995" presented at the 55<sup>th</sup> annual meeting of the American Heart Association, Rhode Island Affiliate, April 1, 1996.
2. Governor's Commendation for "Outstanding volunteer work during the meningitis epidemic in Woonsocket". October 22- November 8, 1997
3. Letter of Thank You from the Mayor of Woonsocket for "Outstanding volunteer work during the meningitis epidemic in Woonsocket". October 22- November 8, 1997
4. Letter of appreciation form the United States Secret Service for the medical support provided by Rhode Island Disaster Medical Assistance Team during the August 17, 1997 visit of the President, William Clinton, to Block Island. I was involved in the planning and execution of this mission as chief medical officer.
5. Teaching Assistantship, Brown University, 1986-1988
6. Chief Residency, Rhode Island Hospital, Brown University School of Medicine, 1995-1996
7. National Disaster Medical System (NDMS) "Distinguished Member" award, presented at the 1999 annual NDMS meeting in Washington DC, May, 1999.
8. Selected as a "Fellow" in the American College of Emergency Physicians, October 13, 1999.
9. Society for Academic Emergency Medicine 1999 Annual Meeting Presentation Award for best basic science poster. Suner S, Jay G, Raymond R. Myocardial

- Depression in Rat Hearts Perfused Ex-Vivo with Carbon Monoxide *Academic Emergency Medicine* 1999;6(5):394.
10. United States Health and Human Services Secretary's Distinguished Services Award for outstanding service during Operation Provide Refuge for the Kosovar Refugees at Ft. Dix. Presented by the Secretary of HHS, Donna Shalala, May 9, 2000 in Washington DC.
  11. Letter of thank you from United States Health and Human Services Secretary Tommy G. Thompson, for the response to the September 11, 2001 terrorist attacks. March 11, 2002, Washington DC.
  12. Hospital Association of Rhode Island Public Service Award 2001 "For Courageous and Noble Volunteerism in Service of America". Presented by the Governor of Rhode Island, Lincoln Almond, at the Hospital Association of Rhode Island's Twelfth Annual Celebration of Excellence October 11, 2001, Cranston, RI.
  13. Excellence in Research Award for presentation: "Injuries among Workers During the 2001 World Trade Center Rescue and Recovery Mission. Presented during the New England Regional Society for Academic Emergency Medicine Meeting, Shrewsbury, MA, April 3, 2002.
  14. National Disaster Medical System Outstanding Achievement Certificate presented in recognition of outstanding performance of duty and contributions made to the National Disaster Medical System's emergency response operations during Terrorist Attacks on America. Presented at the National Disaster Medical System annual meeting in Reno, Nevada, March 8-12, 2003.
  15. Society for Emergency Medicine Neuroscience Fellowship award presented at the SAEM Annual Meeting in Boston, MA, 5-30-2003.
  16. Society for Academic Emergency Medicine 2004 Annual Meeting Presentation Award for best basic science presentation. SAEM Annual Conference, New York, NY, May 23, 2005.
  17. First Turkish National Disaster Medicine Congress Third Prize for Best Scientific Presentation. Presented by the Congress Chair Prof. Dr. Tahir Ozisik. June 30, 2004. Antalya, Turkey.
  18. First Turkish National Disaster Medicine Congress Excellence in Disaster Training Program Development. Presented by the Congress Chair Prof. Dr. Tahir Ozisik. June 30, 2004. Antalya, Turkey.
  19. Selected as a "Top Peer Reviewer" for *Annals of Emergency Medicine* in 2004.
  20. Brown University Department of Emergency Medicine, The Paul Calabresi Faculty Research Award in recognition of excellence, Whose publication

- “Reliability of signals from a chronically implanted silicon-based electrode array in non-human primate motor cortex” was chosen the most outstanding emergency physician scientific publication. Awarded June 2005, Providence, RI.
21. The National Collegiate Inventors and Innovators Alliance, second-place prize for developing AnemiaCAM. Submitted by Graduate Student John McMurdy. May, 2006.
  22. Teaching Recognition Award. Zhejiang University, Hangzue, China. June 8, 2006.
  23. Teaching Recognition Award. Emergency Medicine Association of Turkey (EMAT). Emergency Medicine Congress 2006. Istanbul, Turkey. September 6-9, 2006.
  24. Teaching Recognition Award. King Faisal Specialist Hospital and Research Center. Riyadh, Kingdom of Saudi Arabia. November 21-22, 2006.
  25. Brown University Department of Emergency Medicine, The Paul Calabresi Faculty Research Award in recognition of excellence, Whose publication “Carbon Monoxide has direct toxicity on the myocardium distinct from effects of hypoxia in an ex-vivo rat model.” was chosen the most outstanding emergency physician scientific publication. Awarded June 2008, Providence, RI.
  26. “Profile in Competence Award”. Alpert Medical School of Brown University. Awarded May 28, 2011, Providence, RI.
  27. In support for the International Congress on Disaster and Emergency Medicine. HISAD, May 13, 2016. Ankara, Turkey.

### **PROFESSIONAL LICENSES AND BOARD CERTIFICATION**

Rhode Island State Medical License Number: MD09041

Diplomate of the American Board of Emergency Medicine 1997- 2007 Certification Number: 960371

Diplomate of the American Board of Emergency Medicine 2007- 2017 Certification Number: 960371-- Recertification

### **ACADEMIC APPOINTMENTS**

1995-1997 Clinical Instructor of Medicine, Brown Medical School, Providence.

1997-1999	Clinical Assistant Professor of Surgery (Emergency Medicine), Brown Medical School, Providence.
1999- 2005	Assistant Professor of Surgery (Emergency Medicine), Brown Medical School, Providence.
2005-2006	Assistant Professor of Emergency Medicine and Surgery, Brown Medical School. Providence.
2006-2006	Assistant Professor, Division of Engineering, Brown University, Providence.
2006-2006	Associate Professor of Emergency Medicine and Surgery, Brown Medical School. Providence.
2006-2012	Associate Professor, Division of Engineering, Brown University, Providence.
2010-2012	Associate Professor of Emergency Medicine, Surgery and Engineering, Brown University, Providence.
2012-present	Professor of Emergency Medicine, Surgery and Engineering, Brown University, Providence.
2010-present	Program Director, Disaster Medicine and Emergency Preparedness, Department of Emergency Medicine, Brown University
2010-present	Director, Brown Advanced Emergency Medicine Academies (BAEMA)
2015-present	Director, Division Disaster Medicine and Emergency Preparedness, Department of Emergency Medicine, Brown University
2016-present	Faculty Affiliate, Humanitarian Innovation Initiative (HI <sup>2</sup> ), Watson Institute for International and Public Affairs, Brown University

### **HOSPITAL APPOINTMENTS**

1996- present	Attending Physician; Department of Emergency Medicine, Rhode Island Hospital
1996- present	Attending Physician; Department of Emergency Medicine, The Miriam Hospital

1996-present	Attending Physician; Department of Emergency Medicine, Hasbro Children's Hospital
2005-present	Director, Disaster Response and Emergency Preparedness, Department of Emergency Medicine, Rhode Island Hospital.
2006-present	Trauma Liaison for the Department of Emergency Medicine, Rhode Island Hospital.

### **OTHER APPOINTMENTS**

1990-present	Dive Rescue as Public Safety Diver
1990-present	Critical Incident Stress Debriefing (CISD)
1992- present	Flight Physician United States Public Health Service, Rhode Island Disaster Medical Assistance Team
1994-2002	American Heart Association PALS Instructor
1995-1996	Physician for ESPN Extreme Games
1995-present	American College of Surgeons ATLS Instructor
1996	ESPN Extreme Games Physician and Emergency Medical Services Coordinator, Rhode Island
1996-2002	Medical Advisor to Brown University EMS
1996-present	Medical Advisor for Swansea Police-Fire Dive Rescue Team
1996- 1999	Medical Officer; United States Public Health Service, Rhode Island Disaster Medical Assistance Team
1996-present	Certified Dive Rescue PSD and NOAA Diving Physician
1996-present	Flight Physician
1997	ESPN Extreme Games Chief Medical Officer, Rhode Island
1998- present	Appointed as Medical Director of Western Coventry Fire District in Rhode Island
1999- 2000	Senior Medical Officer; United States Public Health Service, Rhode Island Disaster Medical Assistance Team
1999-present	Train-the-Trainer Emergency Responder Nuclear, Biological and Chemical Technician- Hospital Provider Course. United States National Domestic Preparedness Program
1999-2002	Chief Medical Officer for NBC Gravity Games
1999	NBC Summer Gravity Games Chief Medical Officer, Providence, Rhode Island, September 5-12, 1999.
2000	NBC Winter Gravity Games Chief Medical Officer, Mammoth Lakes California, January 20-25, 2000
2000	Appointed to the Board of Directors of Winning Medical International (WMI)
2000	Selected as a primary author for the National Disaster Medical System Training and Education Program.
2000	Summer Gravity Games Chief Medical Officer, Providence, Rhode Island, July 15-23, 2000.
2000	Disaster Medical Assistance Team (DMAT) National Standard Procedures Development Task Force

2000-present	Cochrane Airways Group Translation Network
2000-present	Team Leader; United States Department of Homeland Security, Rhode Island Disaster Medical Assistance Team
2001	Trauma Certification Review Team, State of Missouri.
2002	Selected as reviewer for the Society for Academic Emergency Medicine National annual meeting abstracts.
2002	Selected as reviewer for the New England Chapter of the Society for Academic Emergency Medicine Regional annual meeting abstracts.
2002- 2007	Appointed to the Rhode Island State Ambulance Service Coordinating Advisory Board by the Governor of Rhode Island, Lincoln Almond
2003-present	Selected as manuscript peer reviewer for the <i>Annals of Emergency Medicine</i>
2002-present	Selected as manuscript peer reviewer of <i>Academic Emergency Medicine</i>
2004-	Adjunct Faculty Center for Biodefense and Emerging Pathogens, Memorial Hospital of Rhode Island
2004- present	Consultant: Cyberkinetics Incorporated, Foxborough, MA.
2005	RNAT-MEDICAL Work Group for the National Disaster Medical System, FEMA, DHS: Charged with development of a rapid evaluation tool for determining NDMS asset requirements after a disaster. Appointed by the Director for the National Disaster Medical System, FEMA, DHS, Jack Beall.
2005-present	Selected as manuscript peer reviewer for the <i>Disaster Management and Response</i> journal.
2005-present	Selected as manuscript peer reviewer for the <i>International Journal of Cardiology</i> .
2005-present	Selected to the Editorial Board of <i>emedhome.com</i> , an educational and Continuing Medical Education online resource updated weekly.
2005-present	National Disaster Medical System, FEMA/DHS Medical Needs Assessment Team (MNAT) medical officer.
2005-present	Medical Director. Paramedic Course, East Bay Medical Educators, Bristol, Rhode Island.
2006-present	Appointed to the Editorial Board, <i>Turkish Journal of Emergency Medicine</i> .
2006-present	Medical Director. Paramedic Course, Emergency Training Associates, Somerset, MA.
2006-present	American College of Emergency Physicians Speaker's Bureau
2006-present	American College of Emergency Physicians Department of Homeland Security Grant expert panel and writing group.
2006-present	Selected as manuscript peer reviewer for the <i>Journal of Emergency Medicine</i>
2007-2012	Appointed to the Rhode Island State Ambulance Service Coordinating Advisory Board by the Governor of Rhode Island, Donald L. Carcieri.
2007-present	Ad hoc reviewer for the <i>British Journal of Haematology</i> .

2007-present Ad hoc reviewer for the *Journal of the Society for Information Display*.

2007-present Ad hoc reviewer for the *IEEE* journal.

2007-present Ad hoc reviewer for *Intensive Care Medicine*

2008 Physician Director for the Dew Tour; Alliance of Action Sports. January 6-11, 2008, Mount Snow, Vermont.

2009-present Selected to the Editorial Board of Emergency Medicine International.

2010-present Reviewer for *American Journal of Emergency Medicine*

2010-present Reviewer for *Science of the Total Environment*

2010 Selected to the Scientific Advisory Committee for 2nd EurAsian Congress on Emergency Medicine (EACEM2010) which will be held in Antalya, Turkey October 28-31.

2008-present Dew Tour Special Event Chief Medical Officer.

2012-present Editorial Board. Emergency Medicine International.

2012-present Editorial Consultant. American Journal of Emergency Medicine.

2012-present Member, International Editorial Review Board, *Journal of Hospital Administration*.

2012-present Member, Editorial Board, Dataset Papers in Medicine (Emergency Medicine), Hindawi Publishing Corporation.

2012-present Ad hoc reviewer for *Pediatrics*.

2012-present Ad hoc reviewer for *British Medical Journal Open*.

2012-present Ad hoc reviewer for *British Journal of Applied Science and Technology*.

2012-present Advisor, New England Sports Medicine Council ([www.NESportsMedicineCouncil.com](http://www.NESportsMedicineCouncil.com))

2011-present Core and Associate Faculty, International Emergency Medicine Division, Department of Emergency Medicine, Warren Alpert Medical School of Brown University

2013-present Associate Faculty, Division of Emergency Medical Services, Department of Emergency Medicine, Warren Alpert Medical School of Brown University

2015-present Ad hoc reviewer for *PLOS One*.

2016 Ad hoc reviewer for Toxic Reviews.

2016 International Scientific Committee. International Congress on Disaster and Emergency Medicine. May 14, 2016. Ankara, Turkey.

2016 Moderator: Lessons Learned from Recent Incidents: International Congress on Disaster and Emergency Medicine. May 14, 2016. Ankara, Turkey.

2016 Moderator: Oral Presentations. International Congress on Disaster and Emergency Medicine. May 14, 2016. Ankara, Turkey.

1995-present Spokesperson for Rhode Island Hospital. Many media appearances for topics including:

Date	Outlet	Headline	Summary	Link
8/15/2004	Providence Journal-	"In Rhode Island,	RI DMAT deployed to	



	Sunday Edition	sailors batten down for Charley”	assist in aftermath of hurricane, Dr. Selim Suner quoted as head of team and RIH ED physician.	
9/1/2005	Providence Journal	“Volunteers, cash, supplies on the way”	Story on local volunteers in the aftermath of Hurricane Katrina includes comments from Selim Suner, MD	
9/26/2005	WPRI-TV Ch. 12 (R.I.)	Hurricane Katrina - one month later	Selim Suner, MD, recalls what the RI-DMAT team faced when they traveled to the Gulf Coast after Hurricane Katrina struck one month ago.	
2/27/2006	Providence Business News	“Research weds engineering, medicine”	Dr. Gregory Jay and Dr. Selim Suner, in collaboration with Brown engineering students, are developing devices that have practical application in medicine -- such as a Hemacam that detects anemia by looking at the eye.	
1/30/2007	Asian News International	Carbon monoxide may have long-lasting effects on heart	Story on Selim Suner’s study in the January issue of <i>Academic Emergency Medicine</i>	
3/26/2007	Providence Business News	Team is ready for any emergency	Selim Suner, unit commander of the R.I. Disaster Medical Assistance Team, and director of emergency preparedness and disaster medicine at RIH, heads a group of 230 volunteers who can be in motion within eight hours of any disaster in the United States with the capacity to set up three field hospitals and to treat up to 250 people a day. Now, Suner said, the DMATs are working on becoming more mobile for faster responses.	<a href="http://www.pbn.com/stories/24592.html">http://www.pbn.com/stories/24592.html</a>
8/26/2007	Providence Journal-Sunday Edition	Harnessing the power of thought - with a silicon chip	A Brown University brain scientist, John Donoghue, is honored for developing a system that enables	

			paralyzed people to move a computer cursor simply by thinking about it. Includes comments by Selim Suner, MD, an emergency medicine physician at RIH.	
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1/29/2008	WJAR-TV Ch. 10	Carbon monoxide and its effect on the heart	Live, in-studio interview with Selim Suner re: his study on the dangers of carbon monoxide and the heart damage it can cause (published in Jan. 08 issue of <i>Academic Emergency Medicine</i> )	
1/29/2008	United Press International	Carbon monoxide can affect heart muscle	Story on Selim Suner's study in the Jan. issue of <i>Academic Emergency Medicine</i>	<a href="http://www.upi.com/NewsTrack/Health/2008/01/29/carbon_monoxide_can_affect_heart_muscle/5661">http://www.upi.com/NewsTrack/Health/2008/01/29/carbon_monoxide_can_affect_heart_muscle/5661</a>
1/29/2008	Science Daily	Carbon Monoxide May Cause Long-Lasting Heart Damage	Story on Selim Suner's study in the Jan. issue of <i>Academic Emergency Medicine</i>	
1/29/2008	PhysOrg.com	Carbon monoxide may cause long-lasting heart damage	Story on Selim Suner's study in the Jan. issue of <i>Academic Emergency Medicine</i>	
1/29/2008	Science Daily	Carbon monoxide may cause long-lasting heart damage	Story on Selim Suner's study in the Jan. issue of <i>Academic Emergency Medicine</i>	<a href="http://www.sciencedaily.com/releases/2008/01/080129125412.htm">http://www.sciencedaily.com/releases/2008/01/080129125412.htm</a> ;
1/30/2008	Medical News Today (Australia)	Toxic levels of carbon monoxide can affect heart muscle	Story on Selim Suner's study in the Jan. issue of <i>Academic Emergency Medicine</i>	
1/30/2008	Asian News International	Carbon monoxide may have long-lasting effects on heart	Story on Selim Suner's study in the Jan. issue of <i>Academic Emergency Medicine</i>	
1/30/2008	MedIndia	Carbon monoxide might cause long lasting heart damage: study	Report on Selim Suner's study which found that CO exposure can cause significant heart damage	
2/1/2008	Narragansett Times	Study shows carbon monoxide damages heart even after elimination from blood	Story on Selim Suner's paper in Journal of Emergency Medicine about benefit of CO screenings	

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2/7/2008	Cranston Herald	CO levels lowered, rink now operational	Following a CO incident at the Cranston Ice Rink, Selim Suner MD's paper on CO and its effect on the blood and other organs is noted, including a quote from Selim Suner.	
2/8/2008	Hospital News-RI	Routine screenings uncover hidden carbon monoxide poisoning	RIH screens more than 14,000 patients for carbon monoxide poisoning as part of a study identifying 11 cases of it. Selim Suner, MD, MS, and director of emergency preparedness and disaster medicine at RIH is quoted explaining the importance of screening and detecting this before consequences arise. Gregory Jay, M.D. was senior author of the study. Other RIH physicians are mentioned as well.	
2/13/2008	WJAR-TV Ch. 10	Carbon monoxide screening	Interview with Selim Suner, MD, about his recent study on routine screening for carbon monoxide in hospital ERs	
2/13/2008	redOrbit.com	Test Detects Hidden Carbon Monoxide Poisoning	Story on Selim Suner's paper in Journal of Emergency Medicine about benefit of CO screenings	<a href="http://www.redorbit.com/news/health/1253585/test_detects_hidden_carbon_monoxide_poisoning/">http://www.redorbit.com/news/health/1253585/test_detects_hidden_carbon_monoxide_poisoning/</a>
2/13/2008	PhysOrg.com	Noninvasive test detects hidden carbon monoxide poisoning	Story on Selim Suner's recent study on routine screening for carbon monoxide in hospital ERs	<a href="http://www.physorg.com/news122123202.html">http://www.physorg.com/news122123202.html</a>
2/13/2008	HULIQ	Noninvasive test detects hidden carbon monoxide poisoning	Story on Selim Suner's recent study on routine screening for carbon monoxide in hospital ERs	<a href="http://www.huliq.com/50449/routine-screenings-uncover-hidden-carbon-monoxide-poisoning">http://www.huliq.com/50449/routine-screenings-uncover-hidden-carbon-monoxide-poisoning</a>
2/13/2008	Science Blog	Noninvasive test detects hidden carbon monoxide poisoning	Story on Selim Suner's recent study on routine screening for carbon monoxide in hospital ERs	<a href="http://www.scienceblog.com/cms/routine-screenings-uncover-hidden-carbon-monoxide-poisoning-">http://www.scienceblog.com/cms/routine-screenings-uncover-hidden-carbon-monoxide-poisoning-</a>

				15468.html
2/13/2008	Science Daily	Noninvasive test detects hidden carbon monoxide poisoning	Story on Selim Suner's recent study on routine screening for carbon monoxide in hospital ERs	<a href="http://www.science-daily.com/releases/2008/02/080213114215.htm">http://www.science-daily.com/releases/2008/02/080213114215.htm</a>

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2/14/2008	NewsRx	Carbon monoxide may cause long-lasting heart damage	Story on Selim Suner's study in the Jan. issue of Academic Emergency Medicine	
2/14/2008	Medical News Today (UK)	Noninvasive test detects hidden carbon monoxide poisoning	Story on Selim Suner's recent study on routine screening for carbon monoxide in hospital ERs	
2/14/2008	Reuters (wire)	Carbon monoxide poisoning causes cardiotoxicity	In-depth story, including interview, on Selim Suner's study which looked at the affect of carbon monoxide on the heart.	<a href="http://www.reuters.com/article/healthNews/idUSKUA45958220080214?feedType=RSS&amp;feedName=healthNews">http://www.reuters.com/article/healthNews/idUSKUA45958220080214?feedType=RSS&amp;feedName=healthNews</a>
2/14/2008	MedIndia.com	Regular screenings uncover hidden carbon monoxide poisoning	Story on Selim Suner's paper in Journal of Emergency Medicine about benefit of CO screenings	<a href="http://www.medindia.net/news/Regular-Screenings-Uncover-Hidden-Carbon-Monoxide-Poisoning-33019-1.htm">http://www.medindia.net/news/Regular-Screenings-Uncover-Hidden-Carbon-Monoxide-Poisoning-33019-1.htm</a>
2/16/2008	Science Centric (Bulgaria)	Routine screenings uncover hidden carbon monoxide poisoning	Story on Selim Suner's paper in Journal of Emergency Medicine about benefit of CO screenings	<a href="http://www.sciencecentric.com/news/08021611.htm">http://www.sciencecentric.com/news/08021611.htm</a>
2/17/2008	News-Medical.net (Australia)	Routine screenings uncover hidden carbon monoxide poisoning	Story on Selim Suner's paper in Journal of Emergency Medicine about benefit of CO screenings	<a href="http://www.news-medical.net/?id=35263">http://www.news-medical.net/?id=35263</a>
2/26/2008	U.S. News & World Report	Low-level carbon monoxide dangers	Story on Selim Suner's study on routine CO screenings; includes interview with TMH patient who was screened for CO poisoning as a result of the findings of this study and was found to have dangerously high CO levels.	<a href="http://health.usnews.com/articles/health/living-well-usn/2008/02/25/low-level-carbon-monoxide-dangers.html">http://health.usnews.com/articles/health/living-well-usn/2008/02/25/low-level-carbon-monoxide-dangers.html</a>
2/26/2008	U.S. News & World Report	4 Ways to Guard Against Carbon monoxide	Sidebar story to story on Selim Suner's CO screening study	<a href="http://health.usnews.com/articles/health/living-well-usn/2008/02/25/4-">http://health.usnews.com/articles/health/living-well-usn/2008/02/25/4-</a>

				<a href="#">ways-to-guard-against-carbon-monoxide.html</a>
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3/7/2008	Brown Daily Herald	Prof's findings could prevent poisonings	Article about Selim Suner's study about routine CO screening in the ED. The study was published in the Journal of Emergency Medicine. Mentions that since the study, routine CO screening has become a standard practice at RIH's and TMH's ED.	<a href="http://media.www.browndailyherald.com/media/storage/paper472/news/2008/03/07/CampusNews/Profs.Findings.Could.Prevent.Poisonings-3258700.shtml">http://media.www.browndailyherald.com/media/storage/paper472/news/2008/03/07/CampusNews/Profs.Findings.Could.Prevent.Poisonings-3258700.shtml</a>
3/19/2008	EarthTimes (UK)	New Study Finds Masimo Rainbow SET Pulse CO-Oximetry(TM) Effective identifying unexpected CO cases	A study published in the Journal of Emergency Medicine by Selim Suner, Greg Jay and others notes the effectiveness of utilizing this unit for screening for carbon monoxide.	<a href="http://www.earthtimes.org/articles/show/new-study-finds-masimo-rainbow-set-pulse-co-oximetrytm-effective-as,320265.shtml">http://www.earthtimes.org/articles/show/new-study-finds-masimo-rainbow-set-pulse-co-oximetrytm-effective-as,320265.shtml</a>
4/6/2009	WJAR-TV Ch. 10	Carbon Monoxide Injures 7 in Central Falls	Seven people were treated at Rhode Island Hospital for carbon monoxide poisoning while living in a condemned and foreclosed house. Dr. Suner discussed the dangers the economy plays with this risk of poisoning.	<a href="http://www.turnto10.com/jar/news/local/article/7_in_foreclosed_home_hit_by_carbon_monoxide/12183/">http://www.turnto10.com/jar/news/local/article/7_in_foreclosed_home_hit_by_carbon_monoxide/12183/</a>
7/6/2009	Providence Journal	Climate change may be benefiting poison ivy, studies suggest	Keith Killingbeck (botanist, URI) talks about the outbreak of poison ivy bushes this year in the Marsh Meadows Wildlife Preserve in Jamestown. Includes interview with Selim Suner, MD.	<a href="http://www.projo.com/news/content/poison_ivy_07-06-09_10EPFEO_v33.3b3e70f.html">http://www.projo.com/news/content/poison_ivy_07-06-09_10EPFEO_v33.3b3e70f.html</a>
8/11/2009	WJAR-TV Ch. 10	Swine flu	Dan Jaehnig interviewed Selim Suner, MD, about Dr. Gifford's predictions regarding the number of expected cases of swine flu, and what parents and teachers can do to help keep children healthy this flu season.	<a href="http://www2.turnto10.com/jar/news/local/article/bts_swine_flu/21523/">http://www2.turnto10.com/jar/news/local/article/bts_swine_flu/21523/</a>
1/15/2010	WLNE-TV Ch. 6 (R.I.)	Selim Suner, MD speaks about the RI	Selim Suner, MD, an emergency medicine	

		Disaster Medical Assistance Unit and the Haiti situation	physician, was live on Ch. 6 to discuss what people in Haiti were likely seeing, and the medical risks they face after four days without food, water and medical assistance.	
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<b>Date</b>	<b>Outlet</b>	<b>Headline</b>	<b>Summary</b>	<b>Link</b>
1/11/2011	WJAR-TV Ch. 10	Snow safety	Selim Suner, MD, director of disaster medicine and emergency preparedness in the department of emergency medicine, was interviewed regarding snow-related injuries and shared tips on avoiding injuries sustained while shoveling, sledding, and clearing clogs in snow blowers.	<a href="http://www2.turonto10.com/lifestyles/2011/jan/12/health-check-snow-safety-ar-360109/">http://www2.turonto10.com/lifestyles/2011/jan/12/health-check-snow-safety-ar-360109/</a>
1/11/2011	WLNE-TV Ch. 6 (R.I.)	Stay safe during the storm	Selim Suner, MD, director of disaster medicine and emergency preparedness in the department of emergency medicine, was interviewed regarding snow-related injuries and shared tips on avoiding injuries sustained while shoveling, sledding, and clearing clogs in snow blowers.	
1/11/2011	WPRI-TV Ch. 12 (R.I.)	Keep safe and healthy during the storm	Selim Suner, MD, director of disaster medicine and emergency preparedness in the department of emergency medicine, was interviewed regarding snow-related injuries and shared tips on avoiding injuries sustained while shoveling, sledding, and clearing clogs in snow blowers.	<a href="http://www.wpri.com/dpp/news/local_news/providence/keep-safe-and-healthy-during-the-storm">http://www.wpri.com/dpp/news/local_news/providence/keep-safe-and-healthy-during-the-storm</a>
1/12/2011	WJAR-TV Ch. 10	Health check: Snow safety	Selim Suner, MD, director of disaster medicine and emergency preparedness in the department of emergency medicine, was interviewed regarding snow-related injuries and	

			shared tips on avoiding injuries sustained while shoveling, sledding, and clearing clogs in snow blowers.	
1/12/2011	HealthyLiving.com	Snow in 49 states: shovel snow safely	Selim Suner, MD, director of disaster medicine and emergency preparedness in the department of emergency medicine, was interviewed regarding snow-related injuries and shared tips on avoiding injuries sustained while shoveling, sledding, and clearing clogs in snow blowers.	<a href="http://www.knowaboutealth.com/snow-in-49-states-shovel-snow-safely/7581/">http://www.knowaboutealth.com/snow-in-49-states-shovel-snow-safely/7581/</a>

### **HOSPITAL COMMITTEES**

1999-2000 Rhode Island Hospital Disaster Committee  
2000-2001 Acting Chairman, Rhode Island Hospital Disaster Committee  
2001-present Chairman, Rhode Island Hospital Emergency Preparedness Committee (formerly the Disaster Committee)  
2000-present Rhode Island Hospital Trauma Committee  
2000-present Rhode Island Hospital Trauma Operations Committee  
2000-2001 Rhode Island Hospital Patient Safety Committee  
2001-present Lifespan Terrorism Planning Committee  
2003-present Hospital Preparedness Planning Committee  
2005-present Hospital Pandemic Influenza Contingency Planning Group  
2008-present Lifespan Emergency Preparedness Council

### **UNIVERSITY COMMITTEES**

2002-2005 Brown University Medical Faculty Executive Committee (by election)  
2003-2006 Brown University Committee on Academic Standing (CAS, by election)  
2004-present Brown Medical School, Department of Emergency Medicine Research Committee  
2005-present Brown University Core Crisis Team (CCT) for planning to respond to a potential influenza pandemic.  
2006-2007 Brown Medical School Curriculum Development Committee.  
2007-present Warren Alpert Medical School of Brown University Department of Emergency Medicine Faculty Search Committee  
2007-2011 Warren Alpert Medical School of Brown University Scholarly Concentration Steering Committee

2007-present	Warren Alpert Medical School of Brown Scholarly Concentration Directors Committee
2008-2011	Chair, Warren Alpert Medical School of Brown Scholarly Concentrations Evaluation Committee
2011-2014	Brown University Medical Faculty Executive Committee (by election)
2012-2015	Brown University Standing Committee of the Code.

### **OTHER COMMITTEES**

2000 – present	Statewide Hospital Emergency Planning Committee (HEPC)
1999 – present	Lieutenant Governor’s Emergency Management Advisory Counsel Domestic Preparedness Subcommittee
2001 – present	Lieutenant Governor’s Emergency Management Advisory Counsel Domestic Preparedness Subcommittee: Community WMD Working Group
1997 - 2001	United States Department of Justice United States Attorney District of Rhode Island Terrorism Emergency Response Team Committee.
1999 - 2000	Measured Response- Providence Chemical Functional Exercise Planning Committee.
1999 - 2000	Measured Response- Providence Biological Tabletop Exercise Planning Committee
1999 - 2002	Rhode Island State Emergency Response Commission.
2002 - present	Providence Emergency Management Agency, Metropolitan Medical Response System (MMRS) Steering Committee.
2003 - 2006	Rhode Island State Trauma System Advisory Committee.
2003-present	University Emergency Medicine Foundation Research Committee

### **MEMBERSHIP IN SOCIETIES**

Society for Neuroscience, member, since 1986  
RI CISD founding team member, since 1989  
DMAT RI-1 founding team member, since 1990  
ACEP (American College of Emergency Medicine), since 1992  
ACEP Disaster Medicine Section Member  
ACEP Community Healthcare Disaster Preparedness Assessment Development Committee, 2006-2007  
ACEP Research Committee, 2007-2011  
SAEM (Society for Academic Emergency Medicine), since 1992  
SAEM Disaster Medicine Interest Group  
NAEMSP (National Association of EMS physicians), 1995-1997



**ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS** (H-Index 17)

ORCID iD: 0000-0001-7334-1517 <http://orcid.org/0000-0001-7334-1517>

1. Sanes JN, **Suner S**, Lando JF, Donoghue JP Rapid organization of adult motor cortex somatic representation patterns after motor nerve injury (1988), *Proceedings of the National Academy of Sciences* 85:2003-2007
2. Donoghue JP, **Suner S**, Sanes JN Dynamic organization of cortical motor representation. II Rapid shifts in organization following motor nerve lesions (1990) *Exp. Brain Res.* 79:492-503
3. Sanes JN, **Suner S**, Donoghue JP Dynamic organization of cortical motor representation. I Long-term patterns of reorganization following nerve injury (1990) *Exp. Brain Res.* 79:479-491
4. **Suner S**, Simon HK, Feit LR, Linakis J Child with Idiopathic Ventricular Tachycardia of Prolonged Duration (1995) *Annals of Emergency Medicine* 25(5): 706-709
5. **Suner S**, Jagminas L, Peipert JF, Linakis J Fatal Spontaneous Rupture of a Gravid Uterus: Case Report and Literature Review of Uterine Rupture (1996), *Journal of Emergency Medicine* 14(2):177-180
6. **Suner S**, Szlatenyi SC, Wang R. Pediatric Gamma Hydroxybutyrate Intoxication (1997), *Academic Emergency Medicine* 4(11):1041-1045
7. Sullivan FM, Kleinman GJ, **Suner S**, St.Jean J. Development of an Equipment and Supply List for Emergency Medical Services delivery at an Annual Air Show.(1999) *Prehospital and Disaster Medicine* 14(1);100-103.
8. **Suner S**, Simmons W, Savitt D. A Porcine Model for Instruction of Lateral Canthotomy (2000), *Academic Emergency Medicine* 7(7):837-8
9. Fisher S, **Suner S** Orthopedic Concerns in the Elderly. *Geriatric Emergency Medicine Reports* (2000);1(7):53-64.
10. Dreitlein D, **Suner S**, Basler J. Genitourinary Trauma. *Emergency Medicine Clinics of North America* (2001);19(3):569-590.
11. Marcozzi D and **Suner S**. The Nontraumatic, Acute Scrotum. *Emergency Medicine Clinics of North America* 2001;19(3):547-567.
12. **Suner S**, Jay GD, Kleinman GJ, Woolard RH, Jagminas L and Becker BM. Cardiopulmonary Resuscitation Using the Cardio Vent Device in a Resuscitation Model. (2002). *The Journal of Emergency Medicine* 22(4): 335-340.

13. Partridge R, Lawrence T, **Suner S**. Medical Counter-Bioterrorism: Anthrax prophylaxis to United States Postal Service Employees in New York City in October 2001 (2003). *Annals of Emergency Medicine* 41(4): 441-446.
14. Kobayashi L, Shapiro MJ, **Suner S**, Williams KA. Disaster Medicine: The potential role of high fidelity medical simulation for mass casualty incident training (2003). *Medicine and Health Rhode Island* 86(7):196-200.
15. Williams KA, **Suner S**, Sullivan F, Woolard R. Rhode Island Disaster Initiative (2003). *Medicine and Health Rhode Island* 86(7):207-210.
16. Woolard R, Lai M, Shapiro MJ, Kobayashi L, Jay G, **Suner S**, Williams KA, Sullivan S. Emergency department design after 9/11/2001 (2003). *Medicine and Health Rhode Island* 86(7):204-206.
17. Gutman DC, Biffi WL, **Suner S**, Cioffi WG. The Station Nightclub Fire and Disaster Preparedness in Rhode Island (2003). *Medicine and Health Rhode Island* 86(11):344-346.
18. **Suner S**. On-site Medical Care During the September 11<sup>th</sup> WTC Terrorist Attack Rescue and Recovery Effort and the National Disaster Medical System (NDMS) (2003). *Medicine and Health Rhode Island* 86(11):354-356.
19. Jay GD, Lee P, Goldsmith H, Battat J, Maurer J and **Suner S**. CPR Effectiveness in Microgravity: Comparison of Three Positions and a Mechanical Device. *Aviation, Space and Environmental Medicine* (2003). 74(11):1183-1189.
20. Shapiro MJ, Morey JC, Small SD, Langford V, Kaylor CJ, Jagminas L, **Suner S**, Simon R and Jay G. Simulation based Teamwork Training for Emergency Department Staff: Does it Improve Clinical Team Performance when Added to an Existing Didactic Teamwork Curriculum? *Quality and Safety in Healthcare* (2004);13(6):417-421.
21. Yanturali S, **Suner S**, Aksay E, Cevik AA, Sonmez Y. To Be Vaccinated or Not? A Survey of Turkish Emergency Physicians Regarding Smallpox. (2005) *Journal of Emergency Medicine* 28(2):139-145.
22. Yanturali S, Ersoy G, Yuruktumen A, Aksay E, **Suner S**, Sonmez Y, Oray D, Colak N, Cimrin AH. A National Survey of Turkish Emergency Physicians Perspectives Regarding Family Witnessed Cardiopulmonary Resuscitation. (2005) *International Journal of Clinical Practice* 59(4):441-446.
23. **Suner S**, Fellows M, Vargas-Irwin C, Nakata K and Donoghue JP. Reliability of signals from chronically implanted, silicon-based electrode array in non-human primate primary motor cortex. (2005) *IEEE Transactions in Neural Systems and Rehabilitation Engineering*, 13(4): 524-541.

24. McMurdy, JW, Jay GD, **Suner S**, Trespelacios F, Crawford GP. Diffuse Reflectance Spectra of the Palpebral Conjunctiva and its Utility as a Non-Invasive Indicator of Total Hemoglobin. (2006) *Journal of Biomedical Optics* 11(1):14019-14027.
25. Kobayashi L, **Suner S**, Shapiro MJ, Jay G, Sullivan F, Overly F, Seekell C, Hill A, Williams KA. Designing multi-patient advanced medical simulation disaster scenarios for civilian pre-hospital medical response training and evaluation: a “dirty bomb” case study. (2006) *Simulation in Healthcare* 1(2): 72-8.
26. Williams KA, Sullivan F, **Suner S**, Shapiro M, Kobayashi L, Woolard B, Hill W and Seekell C. ‘Rhode Island disaster initiative’, (2006) *Int. J. Risk Assessment and Management*,.
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28. McMurdy JW, Crawford GP, Jay GJ, **Suner S**. A novel medical diagnostic tool for non-invasively measuring hemoglobin utilizing switchable H-PDLC display technology. (2006) *SID 05 Digest*.
29. **Suner S**, Crawford D, McMurdy J, Jay GD. Noninvasive Determination of Hemoglobin by Digital Photography of Palpebral Conjunctiva. (2007) *The Journal of Emergency Medicine*, 33(2):105-111.
30. **Suner S**, Chee K, Partridge R, Sucov A, Valente J and Jay G. Non-Invasive Carbon Monoxide Screening in the Emergency Department is Valuable. (2007) *Annals of Emergency Medicine* 49(5):718-719.
31. **Suner S**, McMurdy J, Jay G, Crawford G. Digital imaging, spectroscopy and liquid crystals in a hand-held, non-invasive device to determine hemoglobin concentration. (2007) *Journal of the Society for Image Display* 15(6):399407.
32. **Suner S**, Panagos P. Current Diagnostic and Therapeutic Advances in Neurological Emergencies (2007). *Emergency Medicine and Critical Care Review*.
33. Chee K, Nilson D, Partridge R, Hughes A, **Suner S**, Sucov A, Jay G. (2007). Finding needles in a haystack: A case series of carbon monoxide poisoning detected using new technology in the emergency department. *The Journal of Clinical Toxicology*.
34. Jay G, Racht J, McMurdy J, Mathews Z, Hughes A, **Suner S**, Crawford G. Point of care non-invasive hemoglobin determination using fiberoptic reflectance spectroscopy (2007). *IEEE Engineering in Medicine and Biology Society*.

35. McMurdy J, Jay G, **Suner S**, Crawford G. Non-invasive methods for anemia screening. (2007). *Journal of Clinical Chemistry* 2008;54:2-264-272.
36. **Suner S** and Jay G. Carbon monoxide has direct toxicity on the myocardium distinct from effects of hypoxia in an ex-vivo rat heart model. (2008). *Academic Emergency Medicine* 2008;15(1):59-65.
37. **Suner S**, Partridge R, Sucov J, Valente J, Chee K, and Jay G. Non-invasive Pulse CO-oximetry for Carboxyhemoglobin Screening in the Emergency Department: Identifying Occult Carbon Monoxide Toxicity. (2008). *The Journal of Emergency Medicine* 2008;34(4):441-450.
38. **Suner S**, Sucov A, Valente J, Partridge R, Jay G. SpCO screening at triage continues to identify occult CO toxicity (Letter). (2009). *The Journal of Emergency Medicine* 2009. 2009;37(3):310-312.
39. **Suner S**. Reply: Elevated SpCO is most commonly from an exogenous source of carbon monoxide (Letter). (2009). *The Journal of Emergency Medicine*. 2009;37(3):310-312.
40. **Suner S**. Response: Bland-Altman Analysis (Letter). (2009). *The Journal of Emergency Medicine*. 2009;36(3):307-310.
41. Sisson C, Nagdev A, Tirado A, **Suner S**. Ultrasound diagnosis of intratendinous triceps tendon tear. *The Journal of Emergency Medicine* 2009.
42. **Suner S**, McMurdy J. The Masimo Rad-57 Pulse CO-oximeter device for noninvasive carboxyhemoglobin monitoring. *Expert Reviews Medical Devices*. 2009;6(2):125-130.
43. McMurdy J., Jay G, **Suner S**, Crawford G. Photonics-based in vivo total hemoglobin monitoring and clinical relevance. *Journal of Photonics*. 2009;2(5):277-287. (**Cover Article**)
44. Ersoy G, Yanturali S, Atilla R, Aksay E, Karakus NE, **Suner S**. Relative's Perspectives Regarding Family Witnessed Cardiopulmonary Resuscitation. *European Journal of Emergency Medicine*. 2009; electronic publication DOI: 10.1097/MEJ.0b013e328311a8dc.
45. Wermeling DP, Clinch T, Rudy AC, Dreitlein D, **Suner S**, LaCouture P. A multicenter, open-label, dose-ranging trial of intranasal hydromorphone for managing acute pain from traumatic injury. *The Journal of Pain*. 2010;11(1):24-31.
46. Oray NC, Basak, B, Yanturali Sedat, Onder L, **Suner S**. A potential pitfall in the diagnosis of Renal Colic: Renal Infarction. *American Journal of Emergency Medicine*. 2009; 27(6):750-e7-750e9.

47. Nilson D, Partridge R, **Suner S**, Jay GD. Noninvasive Carboxyhemoglobin monitoring: Screening Emergency Medical Services Patients for Carbon Monoxide Exposure. *Prehospital and Disaster Medicine* 2010;25(3):253-256
48. Haran JP, Beaudoin FL, **Suner S**, Lu S. C-reactive protein as a predictor of bacterial infection among patients with an influenza like illness. *Am J Emerg Med.* 2012 Aug 31. [Epub ahead of print] PMID: 22944552
49. Haran JP, **Suner S**, Gardiner F. Correlation of C-reactive protein to severity of symptoms in acute influenza A infection. *J Emerg Trauma Shock.* 2012 Apr;5(2):149-52.
50. Eryilmaz M, Arziman I, **Suner S**. Surgery and Disaster. *European Journal of Surgical Sciences.* 2012;3(2):39-45.
51. Mason RC, **Suner S**, Williams KA. An analysis of hiker preparedness: A survey of hiker habits in New Hampshire. *Wilderness and Environmental Medicine* 2013 (electronic publication in advance of print).
52. Choi BY, Kobayashi L, Pathania S, Miller CB, Locke E, Stearns, BC, Hudepohl NJ, Patefield SS, **Suner S**, Williams KA, Machan, JT, JayGD. (2015). Detection and measurement of unhealthy, environment-derived aerosol materials in an emergency department. *Herd.* [Epub ahead of print].
53. Yanturali S, Canacık O , Karshı E, **Suner S**. (2015). Injury and Illness Among Athletes During a Multi-day Elite Cycling Road Race. *Phys Sportsmed*, 2015; 43 (4): 348–35.
54. Ersel M, **Suner S**. Guest Editors. Basic Concepts in Disaster Medicine and Humanitarian Action for Emergency Physicians. *Turkish Journal of Emergency Medicine.* 2015;15(Suppl. 1):xi.
55. Ersel M, **Suner S**. Guest Editors. Forward. Basic Concepts in Disaster Medicine and Humanitarian Action for Emergency Physicians. *Turkish Journal of Emergency Medicine.* 2015;15(Suppl. 1):xii.
56. **Suner S**. History of Disaster Medicine. Basic Concepts in Disaster Medicine and Humanitarian Action for Emergency Physicians. *Turkish Journal of Emergency Medicine.* 2015;15(Suppl. 1):1–4.
57. **Suner S**. Assessing and Planning Health Actions during a Crisis. Basic Concepts in Disaster Medicine and Humanitarian Action for Emergency Physicians. *Turkish Journal of Emergency Medicine.* 2015;15(Suppl. 1):8–10.

## **OTHER PEER-REVIEWED PUBLICATIONS**

1. **Suner S.** Rapid reorganization of motor cortical topographic representation of musculature in adult rats (1986) *Master of Science Thesis*, Brown University, Providence

## **BOOKS AND BOOK CHAPTERS**

1. **Suner S**, Savitt D. Atlas of Emergency Medicine Second Edition (2002), Chapter 12: Extremity Conditions pages: 347-375, KJ Knoop, LB Stack, AB Storrow Eds., McGraw-Hill, New York.
2. **Suner S**, Savitt D. Atlas of Emergency Medicine (1997), Chapter 12: Extremity Conditions pages: 316-340, KJ Knoop, LB Stack, AB Storrow Eds., McGraw-Hill, New York.
3. **Suner S.** Musculoskeletal Trauma. Pre-Hospital Care of the Elder Patient Chapter 14, Eds. Partridge and Becker Brady/Prentice Hall 2004, Upper Saddle River, NJ.
4. **Suner S.** Abdominal and Pelvic Trauma. Pre-Hospital Care of the Elder Patient Chapter 14, Eds. Partridge and Becker Brady/Prentice Hall 2004, Upper Saddle River, NJ.
5. **Suner S.** Associate Editor: Disaster Medicine. Ed: Ciattono G. 2006 Mosby
6. **Suner S**, Chee K, Partridge R, Sucov J, Valente J and Jay G. Non-Invasive Carboxyhemoglobin Monitoring: Carbon Monoxide Toxicity Screening in the Emergency Department and Implications for Disaster Medical Care. International Disaster Reduction Conference Extended Abstracts, Volume 3, pages 578-581. Eds. Walter Ammann, Jordahna Haig, Christine Houvinen and Martina Stocker. Swiss Federal Research Institute WSL, Birmensdorf and Davos, Switzerland, 2006.
7. McMurdy J, Crawford G, **Suner S.** Liquid crystals in spectroscopy, microscopy and hyperspectral imaging. Chapter 3, pp 149-217. In Liquid Crystals: Frontiers in Biomedical Applications, 2007, Eds Woltman S, Jay G. and Crawford G. World Scientific Book.
8. Tubbs R, Savitt D., **Suner S.** Atlas of Emergency Medicine Third Edition (2009), Chapter: Extremity Conditions pages:, KJ Knoop, LB Stack, AB Storrow Eds., McGraw-Hill, New York.
9. **Suner S.** Carbon monoxide poisoning. World Book Encyclopedia Online Edition (2009), World Book Inc. Chicago Ill. [www.worldbook.com](http://www.worldbook.com).

10. Tai R, **Suner S**. Risk of aerosolized dissemination of CDC Category A agents based on seasonal variations in meteorologic factors. In, Handbook of Disaster Medicine. EDs Partridge R and Proano L. Feb 2012.
11. Eryilmaz M, **Suner S**. Afetlerde Cerrahi (Surgery in Disasters). In Temel Cerrahi. Ed. Prof. Dr. Iskender Sayek. Publication Date 2012.
12. **Suner S**. Agencies involved in Disaster Care in the US. In, Handbook of Disaster Medicine. EDs Partridge R and Proano L. 2012.
13. **Suner S**. Associate Editor: Ciattonone's Disaster Medicine. Ed: Ciattonone G. 2015 Mosby.

### **PUBLICATIONS SUBMITTED OR IN PREPARATION**

1. Tai R, **Suner S**. Risk of aerosolized dissemination of CDC Category A agents and H1N1 virus in New England based on seasonal variations in meteorologic factors. Submitted.
2. Eryilmaz M, **Suner S**. Mass Casualty Response to a Car Bomb: The anatomy of a critical incident. In preparation.
3. Hua A, **Suner S**. Illness and Injury Among Rescuers during the Rescue and Recovery mission following 9/11/2001 terrorist attack on the World Trade Center in New York City. In preparation.
4. Luo, J, Jay G, Suner S. Editors. *From Across the Table: A Guide for Academic Entrepreneurs*. In preparation.
6. **Suner S**. Associate Editor: Ciattonone's Disaster Medicine. Second Edition Ed: Ciattonone G. Mosby. In preparation.
7. Yousif S, Machan JT, **Suner S**. Airway Management in Disaster Response: A Manikin Study Comparing Direct and Video Laryngoscopy for Endotracheal intubation by Pre-hospital Providers in Level C Personal Protective Equipment. Submitted to Resuscitation, In preparation.
8. Alhassan A, Goldlust E, Machan JT, **Suner S**. Impact of a crowded Emergency Department on the disposition of patients triaged using ESI. In preparation.
9. George J, **Suner S**, Hack J. Carbon Monoxide Concentrations Induced by Cigarette Smoking Outdoors in Typical Smokers. 2015 Submitted.
10. Kobayashi L, Choi B, Asselin N, Pettit C, Dannecker M, Machan J, Merk D, Merck L, **Suner S**, Williams K, Jay G. Unassigned Randomized Comparative Assessment of Standard Life Support Protocols Versus An Experimental

Automation-Assisted Approach on Resuscitation Performance and Quality During Simulated Pre-Hospital Sudden Cardiac Arrest. 2015, Submitted

11. Kobayashi L, Choi B, Asselin N, Dannecker M, Machan J, Merk D, **Suner S**, Williams K, Jay G. Comparison of In-transit Provider Performance and Exertion with Standard and Experimental Resuscitation Protocols during Pre-hospital Cardiac Arrest Simulation. 2015, Submitted.

## **ABSTRACTS**

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2. Donoghue JP, **Suner S**, Lando JF, Sanes JN Motor cortical representation patterns shift rapidly following motor nerve section (1987) *Neurosci. Abstr.* 13: 242.
3. **Suner S**, Gutman DC, Gaal G, Sanes JN and Donoghue JP Reorganization of monkey motor cortex related to motor skill learning (1993) *Neurosci. Abstr.* 19:775
4. **Suner S**, Jagminas L, Woolard RH, Jay GD, Kleinman GJ and Becker BM Comparison of Two-Person CPR with Bag-Valve-Mask Device (BVM) to One-Person CPR Using the Kendall Cardiovent<sup>®</sup> (KCV<sup>®</sup>) Device in an Intubated CPR Mannequin (1995) *Prehospital and Disaster Medicine* 10(1): S34.
5. Jagminas L, **Suner S**, Jay GD The second derivative of the end tidal CO<sub>2</sub> waveform is associated with admission in acute exacerbation of asthma. (1996) *Academic Emergency Medicine* 1996 3(5):455-456.
6. Suner S, Jagminas L, Piepert JF, Linakis J. Rupture Spontanee Fatale De L'uterus Gravide: Observation Et Revue De La Literature De La Rupture Uterine. *Journal of Emergency Medicine* 1996; 14(2):284
7. **Suner S**, Szlatenyi S, Wang R Gamma Hydroxybutyrate Toxicity in Children (1996) *Journal of Toxicology, Clinical Toxicology* 1996;34(5):596
8. Daddario DM, Kleinman GJ, **Suner S**: An Emergency Physician-Staffed On-Site Facility Reduces the Number of Patients Transported to Hospitals at Air Shows. *Academic Emergency Medicine* 1997;4(5):416
9. Daddario DM, Kleinman GJ, **Suner S**: Emergency Physician-Staffed On-Site Facility at Air Shows Reduces the Number of Patients Transported to Hospitals. *The Journal of Emergency Medicine* 1998;16(2S):30S
10. **Suner S**, Daddario DM, Kleinman GJ Emergency Physicians Can Safely Evaluate, Treat, and Discharge Patients at On-Site Emergency Facilities at Air Shows. *The Journal of Emergency Medicine* 1998;16(2S):92S



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12. **Suner S**, Simmons W, Savitt D A Porcine Model for Instruction of Lateral Canthotomy. *Academic Emergency Medicine* 1999;6(5):486.
13. **Suner S**. Injuries During Competitive Youth Soccer. Presented at the 5<sup>th</sup> Annual New England Regional Society of Academic Emergency Medicine Conference. Hoagland Pincus Conference Center, Shrewsbury, Massachusetts, April 6, 2001. *Academic Emergency Medicine* 2001;8(5):457.
14. Ernsting K, **Suner S**, Jay GD. Use of Digital Imaging of Conjunctiva to Predict Hemoglobin Concentration. *Academic Emergency Medicine* 2001;8(5):528.
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16. Sucov A, Shapiro MJ, Jay GD, **Suner S**, Simon R and Kaylor C. Anonymous Error reporting As An Adjunct to Traditional Incident Reporting Improves Error Detection. *Academic Emergency Medicine* 2001;8(5):498.
17. Anonymous Error Reporting in the Emergency Department: Demographics and Factors Contributing to Medical Error. 5<sup>th</sup> Annual New England Regional Society of Academic Emergency Medicine Conference. Hoagland Pincus Conference Center, Shrewsbury, Massachusetts, April 6, 2001.
18. **Suner S**, Jay G, Gum R, Ciottone G. Injuries Among Workers During the 2001 World Trade Center Rescue and Recovery Mission. *Academic Emergency Medicine*.
19. Sidman R, Lubin J, **Suner S**. Cricoid Pressure: How good are emergency medicine residents when asked and observed? Society for Academic Emergency Medicine Annual Meeting, May 2002; St. Louis, MO.
20. Lubin J, **Suner S**, Sidman R. Outcome of patients undergoing endotracheal intubation by emergency physicians in a tertiary care center. Society for Academic Emergency Medicine New England Regional Meeting, April 2002; Shrewsbury, MA.
21. Partridge R, **Suner S**. Medical Counter-Bioterrorism: Anthrax prophylaxis to United States Postal Service Employees in New York City in October 2001. Public Health Research Day, Brown Medical School, Sayles Hall, March 12, 2002 and National American College of Emergency Medicine meeting in Seattle, 2002; Brown Department of Medicine Eighth Annual Research Forum. Smith-Buonanno Hall, Brown University, Providence, RI, June 13, 2002.

22. **Suner S.** Injuries Among Workers During the 2001 World Trade Center Rescue and Recovery Mission. 6<sup>th</sup> Annual New England Regional Society for Academic Emergency Medicine Conference. Hoagland-Pincus Conference Center, Shrewsbury, Massachusetts, April 3, 2002.
23. Lubin J, Skarbek-Borowski G, Brown J, Trespalacios F, **Suner S.** The impact of physician presence on patient triage and transport at an annual mass gathering event. National Association of EMS Physicians Annual Meeting, January 2003; Panama City Beach, FL.
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26. Shapiro M, Kobayashi L, Williams K, Sullivan F, Sekell C, **Suner S.** Use Of Personal Protective Equipment (PPE) Does Not Impede Airway Management In An Environment Simulating A Chemical Weapons Of Mass Destruction (WMD) Attack. 4th International Meeting on Medical Simulation. Society for Technology in Anesthesia. January 16-18, 2004, Albuquerque/Santa Fe, NM.
27. **Suner S,** Williams K, Shapiro M, Kobayashi L, Woolard R and Sullivan F. Effect of Personal Protective Equipment (PPE) on Rapid Patient Assessment and Treatment During a Simulated Chemical Weapons of Mass Destruction (WMD) Attack. Society for Academic Emergency Medicine New England Regional Meeting, April 2004; Shrewsbury, MA.
28. **Suner S,** M.R. Fellows, C. Vargas-Irwin, J.P. Donoghue. Defining Long-term Signal Stability For a 100-electrode Chronically Implanted Array To Develop a Primate Model For Studying The Effect Of Near-by Injury To Individual Neurons In Motor Cortex (M1). Society for Academic Emergency Medicine New England Regional Meeting, April 2004; Shrewsbury, MA.
29. **Suner S,** M.R. Fellows, C. Vargas-Irwin, J.P. Donoghue. Determination of Physiological Variables to Assess Changes in Neuronal Function Following Injury to Near-by Neurons. Society for Academic Emergency Medicine New England Regional Meeting, April 2004; Shrewsbury, MA.
30. Williams K, Sullivan F, **Suner S,** Shapiro M, Kobayashi L, Woolard R, Seekell C, Trespalacios F. Triage Behaviors of First Responders. Society for Academic Emergency Medicine New England Regional Meeting, April 2004; Shrewsbury, MA.

31. Williams K, Sullivan F, **Suner S**, Kobayashi L, Woolard R, Seekell C. Do First Responders enter unsafe environments? Society for Academic Emergency Medicine New England Regional Meeting, April 2004; Shrewsbury, MA.
32. **Suner S**, Williams K, Shapiro M, Kobayashi L, Woolard R and Sullivan F. Effect of Personal Protective Equipment (PPE) on Rapid Patient Assessment and Treatment During a Simulated Chemical Weapons of Mass Destruction (WMD) Attack. Society for Academic Emergency Medicine Annual Meeting, May 2004; Orland, FL.
33. **Suner S**, M.R. Fellows, C. Vargas-Irwin, J.P. Donoghue. Defining Long-term Signal Stability For a 100-electrode Chronically Implanted Array To Develop a Primate Model For Studying The Effect Of Near-by Injury To Individual Neurons In Motor Cortex (M1). Society for Academic Emergency Medicine Annual Meeting, May 2004; Orland, FL.
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35. Kobayashi L, Shapiro MJ, Hill A, **Suner S**, Jay G. Creating a MESS (Multiple Encounter Simulation Scenario) for Medical Error Reduction and Enhanced Medical Education. Society for Academic Emergency Medicine Annual Meeting, May 2004; Orland, FL.
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## **INVITED PRESENTATIONS**

1. Management of Biological Casualties. Hospital Provider Course: Defense Against Weapons of Mass Destruction. March 22 and March 25, 1999, Rhode Island Hospital. A regional conference on weapons of mass destruction.
2. Special Considerations in Mass Casualty Incidents. Hospital Provider Course: Defense Against Weapons of Mass Destruction. March 22 and March 25, 1999, Rhode Island Hospital. A regional conference on weapons of mass destruction.
3. Accidental Hypothermia. Department of Internal Medicine. February 3, 1999.
4. Application of the Kendall Cardiovent<sup>®</sup> Device for One-Person CPR in the Intubated Patient in the Field in the Disaster Setting. March 11-16, 1995, Nashville Tennessee National Disaster Medical System National Meeting.
5. Comparison of Two-Person CPR with Bag-Valve-Mask Device (BVM) to One-Person CPR Using the Kendall Cardiovent<sup>®</sup> (KCV<sup>®</sup>) Device in an Intubated CPR Mannequin. 28 May-2 June 1995 Jerusalem, Israel, The Ninth World Congress for Disaster and Emergency Medicine
6. Comparison of Two-Person CPR with Bag-Valve-Mask Device (BVM) to One-Person CPR Using the Kendall Cardiovent<sup>®</sup> (KCV<sup>®</sup>) Device in an Intubated CPR Mannequin. July 29-31 1995, San Diego, California, Eleventh Annual Conference and Scientific Assembly of National Association of Emergency Medical Services Physicians.
7. Emergency Physician-Staffed On-Site Facility at Air Shows Reduces the Number of Patients Transported to Hospitals. March 25-29, 1998, Vancouver, BC, Canada, 7<sup>th</sup> International Conference on Emergency Medicine.
8. Emergency Physicians Can Safely Evaluate, Treat, and Discharge Patients at On-Site Emergency Facilities at Air Shows. March 25-29, 1998, Vancouver, BC, Canada, 7<sup>th</sup> International Conference on Emergency Medicine.
9. Myocardial Depression in Rat Hearts Perfused Ex-Vivo with Carbon Monoxide. April 10, 1999, Boston Massachusetts, 3<sup>rd</sup> Annual New England Regional Society for Academic Emergency Medicine Conference.
10. Case of the EMS system in action: From frozen Pond to Pediatric Intensive Care Unit. February 2, 2000, Brown University, Biology and Community Health 152: Emergency Medical Services: An Anatomy of Critical Performance.
11. Chemical, Nuclear and Biological Emergencies from Weapons of Mass Destruction. May 11, 2000, 10<sup>th</sup> Annual Peter D. Smith Memorial Trauma Seminar: T2K Contemporary Issues in Trauma, Rhode Island Hospital, Providence, RI.

12. Disaster Medical Assistance Teams: An ideal venue for Emergency Medicine resident out-of-hospital training. National Disaster Medical System 2000 Annual Conference, Catastrophic Care for the Nation. April 29-May3, 2000, Las Vegas, Nevada.
13. The NBC Gravity Games: Disaster Medical Assistance Team integration into medical care for “extreme” sporting events. National Disaster Medical System 2000 Annual Conference, Catastrophic Care for the Nation. April 29-May3, 2000, Las Vegas, Nevada.
14. Disaster Medical Assistance Teams in multi-fatality disaster response: The Egypt Air 990 crash. National Disaster Medical System 2000 Annual Conference, Catastrophic Care for the Nation. April 29-May3, 2000, Las Vegas, Nevada.
15. Design and implementation of a marine medical unit aboard the Smit Pioneer during the United States Public Health Service response to Egypt Air 990 crash. National Disaster Medical System 2000 Annual Conference, Catastrophic Care for the Nation. April 29-May3, 2000, Las Vegas, Nevada.
16. Introduction to NBC (nuclear, biological and chemical weapons of mass destruction). Rhode Island Chapter of American College of Emergency Physicians Ocean View Update: Emergency Medicine 2000 New England Regional Conference, August 9, 2000, Newport Marriott, Newport, Rhode Island.
17. Respirators and Garments. Rhode Island Chapter of American College of Emergency Physicians Ocean View Update: Emergency Medicine 2000 New England Regional Conference, August 9, 2000, Newport Marriott, Newport, Rhode Island.
18. Preparedness for Terrorist Acts Involving Weapons of Mass Destruction: A Panel Discussion. Rhode Island Chapter of American College of Emergency Physicians Ocean View Update: Emergency Medicine 2000 New England Regional Conference, August 9, 2000, Newport Marriott, Newport, Rhode Island.
19. Diving related injuries and hyperbaric medicine. February 7, 2001. Brown University Medical School, Providence, RI.
20. The Emergency Medical System response to 3 simultaneous hypothermic near-drowning victims: A lesson in communication and teamwork. February 7, 2001, Brown University, Biology and Community Health 152: Emergency Medical Services: An Anatomy of Critical Performance.
21. Infectious Disasters: from the 1918 Influenza pandemic to biological terrorism. February 13, 2001. Department of Medicine Grand Rounds, Brown University, Rhode Island Hospital, Providence, RI.

22. Accidental Hypothermia. National Disaster Medical System, Response Team Training. Web based lecture series. <http://ndms.umbc.edu/>.
23. Hyperthermia. National Disaster Medical System, Response Team Training. Web based lecture series. <http://ndms.umbc.edu/>.
24. From Phlebotomy to Pixel: Use of Digital Imaging of Conjunctiva to Predict Hemoglobin Concentration. 5<sup>th</sup> Annual New England Regional Society of Academic Emergency Medicine Conference. Hoagland Pincus Conference Center, Shrewsbury, Massachusetts, April 6, 2001.
25. TOPOFF 2000 exercise: The National Medical Response Team and Disaster Medical Assistance Team Interface. Presented at the National Disaster Medical System annual meeting in Dallas, Texas, April 25, 2001.
26. Environmental Emergencies. Department of Internal Medicine, Brown University, Rhode Island Hospital. June 29, 2001.
27. Multiple Emergency Department Case scenarios Presented Through Hi Fidelity Medical Simulation Mannequin. Ocean View Update: Emergency Medicine 2001 New England Conference, Newport Marriott, Newport, Rhode Island, August 10, 2001.
28. After the Initial Trauma: RI-1 DMAT Response to the WTC Terrorist Attack. Rhode Island Hospital Staff Association. George Auditorium, Rhode Island Hospital, Providence, Rhode Island, October 4, 2001.
29. Rhode Island Hospital Response to the WTC Terrorist Incident: RI-1 DMAT at "Ground Zero". Board of Directors, Lifespan. Terrace room, Cooperative Care Building, Providence, Rhode Island, October 9, 2001.
30. In the Aftermath: Caring and Community. Panel Discussion and Open Forum. Affinity Group Program, Brown Medical School, Starr Auditorium, MacMillan Building, Providence, Rhode Island, October 25, 2001.
31. Ground Zero Recovery and Disaster Medical Assistance Teams. New England Disaster Recovery Information Exchange (NEDRIX) Annual Conference, Hyatt Hotel, Newport, Rhode Island, October 30, 2001.
32. World Trade Center Attack: Disaster Preparedness and Response. Rhode Island Department of Health, Providence, Rhode Island, November 2, 2001.
33. Rescuing the Rescuers at Ground Zero. Presentation for the Program in Liberal Medical Education Lecture Series. The Faculty Club, Brown University, Providence, Rhode Island, November 7, 2001.



34. How to Manage Large Scale Disasters: Lessons Learned from Ground Zero. Rhode Island Disaster Medical Assistance Team Lecture Series. Garry House, Rhode Island Hospital, Providence, Rhode Island, November 8, 2001.
35. The Problem: Nuclear, Biological, Chemical Attack: The New York City Experience. Weapons of Terrorism Course, The International Trauma, Anesthesia and Critical Care Society, Key West, Florida, November 14, 2001.
36. Management of Biological Casualties. Weapons of Terrorism Course, The International Trauma, Anesthesia and Critical Care Society, Key West, Florida, November 14, 2001.
37. Special Considerations in Mass Casualty Incidents. Weapons of Terrorism Course, The International Trauma, Anesthesia and Critical Care Society, Key West, Florida, November 14, 2001.
38. Mass Trauma During Disasters: The WTC Experience. Case Conference Presentation. The Department of Psychiatry, Rhode Island Hospital, Providence, Rhode Island. December 4, 2001.
39. World Trade Center Attack: Lessons Learned for Hospital Disaster Preparedness. Grand Rounds, The Westerly Hospital, Westerly, Rhode Island, December 28, 2001.
40. Carbon Monoxide Toxicity. Critical Care Lecture Series for Pulmonary and Critical Care Fellows, Brown Medical School, Rhode Island Hospital, March 4, 2002.
42. Resident Participation in Disaster Medical Assistance Teams. National Disaster Medical System Annual Meeting, Atlanta, Georgia, March 12-16, 2002.
42. Injuries Rescue Workers During the World Trade Center Rescue and Recovery Operation in 2001. National Disaster Medical System Annual Meeting, Atlanta, Georgia, March 12-16, 2002.
43. Managing the Effects of Mass Destruction. 12<sup>th</sup> Annual Peter D. Smith Memorial Trauma Seminar: "9-11" Remembrance Recognition and Readiness. George Auditorium, Rhode Island Hospital, Providence Rhode Island, May 9, 2002.
44. Managing the Effects of Mass Destruction: Lessons Learned from WTC and other Disasters. Homeland Security and the Radiation Safety Professional. New England Chapter of the Health Physics Society Annual Meeting, Westford Regency Inn and Conference Center, Westford, MA, June 6, 2002.
45. The Problem: Biological and Chemical Attack. International Trauma Care and International Trauma Anesthesia and Critical Care Society, Weapons of Terrorism Seminar. Anaheim, California. June 22-23, 2002.

46. Management of Nuclear Injuries. International Trauma Care and International Trauma Anesthesia and Critical Care Society, Weapons of Terrorism Seminar. Anaheim, California. June 22-23, 2002.
47. Management of Biological Casualties. International Trauma Care and International Trauma Anesthesia and Critical Care Society, Weapons of Terrorism Seminar. Anaheim, California. June 22-23, 2002.
48. Management of Chemical Injuries. International Trauma Care and International Trauma Anesthesia and Critical Care Society, Weapons of Terrorism Seminar. Anaheim, California. June 22-23, 2002.
49. Special Considerations in Mass Casualty Incidents. International Trauma Care and International Trauma Anesthesia and Critical Care Society, Weapons of Terrorism Seminar. Anaheim, California. June 22-23, 2002.
50. Management of Blast Injuries. International Trauma Care and International Trauma Anesthesia and Critical Care Society, Weapons of Terrorism Seminar. Anaheim, California. June 22-23, 2002.
51. Management of Crush Injuries. International Trauma Care and International Trauma Anesthesia and Critical Care Society, Weapons of Terrorism Seminar. Anaheim, California. June 22-23, 2002.
52. Hospital Preparedness for Disasters involving Weapons of Terror. International Trauma Care and International Trauma Anesthesia and Critical Care Society, Weapons of Terrorism Seminar. Anaheim, California. June 22-23, 2002.
53. Personal Protective Gear (PPE): Biological and Chemical Attack. International Trauma Care and International Trauma Anesthesia and Critical Care Society, Weapons of Terrorism Seminar. Anaheim, California. June 22-23, 2002.
54. Organized and conducted the Weapons of Terror portion of the 12th Annual New England Conference sponsored by the Rhode Island Chapter of the American College of Emergency Physicians. Newport, Rhode Island, August 8 and 9 2002.
55. Introduction to Weapons of Terror, 12th Annual New England Conference sponsored by the Rhode Island Chapter of the American College of Emergency Physicians. Newport, Rhode Island, August 8, 2002.
56. Immediate Response to Terror, 12th Annual New England Conference sponsored by the Rhode Island Chapter of the American College of Emergency Physicians. Newport, Rhode Island, August 9, 2002.
57. Grand Rounds: Medical response to Weapons of Terror in the United States. Marmara University, School of Medicine, Istanbul Turkey; September 28, 2002

58. Grand Rounds: Medical Preparedness for Terrorism in the United States. Dokuz Eylul University, School of Medicine, Izmir, Turkey; November 5, 2002.
59. Emergency Medicine Pearls from Case Files of the Rhode Island Hospital Department of Emergency Medicine. Dokuz Eylul University, School of Medicine, Izmir, Turkey; November 5, 2002.
60. Carbon Monoxide Toxicity. Dokuz Eylul University, School of Medicine, Izmir, Turkey; November 5, 2002.
61. Carbon Monoxide Toxicity. Critical Care Lecture Series for Pulmonary and Critical Care Fellows, Brown Medical School, Rhode Island Hospital, March 6, 2003.
62. Surgical Implantation Technique for the Bionic 100-electrode Array. Sponsored by Cyberkinetics Inc. Bio-Med building; Brown Medical School August 22, 2003, Providence RI.
63. Visual Diagnosis in Emergency Medicine. Emergency Medicine Training Course. Royal College of Surgeons in Ireland. September 12, 2003, Dublin, Ireland.
64. Medical Management of Nuclear and Radiological Disasters. Disaster Management Training Course. Royal College of Surgeons in Ireland. September 16, 2003, Dublin, Ireland.
65. Signal Stability of Single Units and Long Term Recording from Monolithic, Silicon-based Microelectrodes Implanted in Primary Motor Cortex of Non-human Primates. Developments in Neural Probe Technologies and Applications. A Society for Neuroscience Symposium. Sponsored by the Center for Neural Communication Technology a NIH/NIBIB Resource Center. November 7, 2003, The Sheraton, New Orleans, LA.
66. The Bionic Microelectrode Array Surgical Implantation Procedure. Seminar Organized by Cyberkinetics Inc. Society for Neuroscience. November 11, 2003. The Sheraton, New Orleans, LA.
67. Bionic Monolithic Construction 100-electrode Array and Connector Implantation Technique for Non-human Primates. January 21, 2004, Baystate Medical Center, Springfield, MA
68. The effect of PPE on Health Care Provider Performance. RIDI Debriefing. George Auditorium, Rhode Island Hospital. Providence RI. January 22, 2004.
69. Advances in the Treatment of Carbon Monoxide Toxicity. Critical Care Lecture Series for Pulmonary and Critical Care Fellows, Brown Medical School, Rhode Island Hospital, February 2, 2004.

70. Organization of Emergency Medical Services During Disasters. First Turkish National Disaster Medicine Congress. June 26-30, 2004. Antalya, Turkey.
71. Construction of a Field Hospital During the September 11, 2001 World Trade Center Terrorist Attacks. First Turkish National Disaster Medicine Congress. June 26-30, 2004. Antalya, Turkey.
72. The Station Nightclub Fire and Disaster Preparedness in Rhode Island. First Turkish National Disaster Medicine Congress. June 26-30, 2004. Antalya, Turkey.
73. Effect of Personal Protective Equipment (PPE) on Rapid Patient Assessment and Treatment During a Simulated Weapons of Mass Destruction (WMD) Attack. First Turkish National Disaster Medicine Congress. June 26-30, 2004. Antalya, Turkey.
74. Scene Entry and Triage Behavior of First Responders. First Turkish National Disaster Medicine Congress. June 26-30, 2004. Antalya, Turkey.
75. Creating a MESS: High Fidelity Simulation in Disaster Research and Training Programs. First Turkish National Disaster Medicine Congress. June 26-30, 2004. Antalya, Turkey.
76. Illness and Injury Among Rescue Personnel during the 9-11-2001 World Trade Center Terrorist Attack. Symposium #21: American Society of Tropical Medicine and Hygiene 53<sup>rd</sup> Annual Meeting. November 8, 2004. Miami, Florida.
77. From 9/11 to the Station Fire—EMS in Action. Keynote Lecture, 2005 Brown University Emergency Medical Services Week. April 6, 2005, Bio-Medical Center, Brown University, Providence, RI.
78. Reproducible Medical Simulation Exercises to Generate Valid Data. National Disaster Medical System Annual Conference: Catastrophic Care for The Nation. May 3, 2005, Orlando, Florida.
79. Effect of PPE on Rapid Patient Assessment and Treatment During a Simulated Chemical WMD Attack. National Disaster Medical System Annual Conference: Catastrophic Care for The Nation. May 3, 2005, Orlando, Florida.
80. Creating A MESS for Medical Error Reduction and Enhanced Medical Education. National Disaster Medical System Annual Conference: Catastrophic Care for The Nation. May 3, 2005, Orlando, Florida.
81. Triage Behavior of First Responders. Panel Discussion. National Disaster Medical System Annual Conference: Catastrophic Care for The Nation. May 3, 2005, Orlando, Florida.

82. Do First Responders Enter Unsafe Environments? Panel Discussion. National Disaster Medical System Annual Conference: Catastrophic Care for The Nation. May 3, 2005, Orlando, Florida.
83. Heat Related Illness. Rhode Island Disaster Medical Assistance Team training program. June 9, 2005, George Auditorium, Rhode Island Hospital, Providence, RI.
84. Effect of Personal Protective Equipment (PPE) on Rapid Patient Assessment and Treatment During a Simulated Chemical Weapons of Mass Destruction (WMD) Attack. National Environmental Health Association 69<sup>th</sup> Annual Educational Conference, June 26-29, 2005, Providence, RI.
85. Emergency Department Approach to Bioterrorism. Center for Biodefense and Emerging Pathogens, Brown Medical School and Rhode Island Hospital Medical Simulation Center training program for emergency physicians. July 6, 2005, Providence RI.
86. Emergency Department Approach to Bioterrorism. Center for Biodefense and Emerging pathogens, Brown Medical School and Rhode Island Hospital Medical Simulation Center training program for emergency physicians. July 7, 2005, Providence RI.
87. Crush Syndrome. Grand Rounds, Saint Luke's Hospital, New Bedford, MA, October 29, 2005.
88. Disaster Medical Assistance Team (DMAT), What it is and how it works. The 19<sup>th</sup> Kiwanis Pediatric Trauma Management Seminar. George Auditorium, Rhode Island Hospital, November 19, 2005. 75 participants 1 hour.
89. Triage, Treatment and Transport: The role of Rural EMS in a Bioterrorist Incident. Foster, Rhode Island, January 17, 2005. 50 Participants, 1.5 hours.
90. "Dirty Bombs" and Other Terrorist Threats. Grand Rounds, Newport Hospital. Newport, RI. January 20, 2006. 38 Participants, 1 hour.
91. Insertion of engineering concepts to enhance medical disaster preparedness. Brown University Division of Engineering Symposium. Feb 10, 2006
92. Hurricane Katrina. A case Study in Disaster Response. Keynote Lecture. Kenny Research Celebration. Memorial Hospital of Rhode Island. March 3, 2006.
93. The next generation PPE: A study in industrial design National Disaster Medical System annual conference, Reno Nevada, April 26, 2006.
94. Non-invasive, hand-held co-oximeter for emergency department screening for carbon monoxide toxicity. National Disaster Medical System annual conference, Reno Nevada, April 26, 2006.

95. Grand Rounds: Disaster Medical Care in the United States: Hurricane Katrina as a Case Study. Kowloon (Nine Dragons) Hospital, Suzhou, China. June 3, 2006.
96. Grand Rounds: Crush Syndrome after Disasters. Kowloon (Nine Dragons) Hospital, Suzhou, China. June 3, 2006.
97. Reliability of Signals from a Chronically Implanted Multielectrode Silicon-based Array in Non-human Primates. Institute of Neuroscience, Shanghai, China. June 5, 2006.
98. Strategies for Successful Chronic Implantation of the Cyberkinetic Array in Primate Research Subjects. A Seminar. Institute of Neuroscience, Shanghai, China. June 5, 2006.
99. Temporal Characteristics of Signals from a Chronically Implanted Multielectrode Silicon-based Array in Non-human Primates. Neuroscience Institute, Fudan University, Shanghai, China. June 6, 2006.
100. Chronic Implantation Techniques for the Cyberkinetic Array in Primate Research Subjects. A Seminar. Neuroscience Institute, Shanghai, China. June 6, 2006.
101. Defining Temporal Signal Reliability in a Chronically Implanted Multielectrode Silicon-based Array in Non-human Primates. Department of Biomedical Engineering, Zhejiang University, Hangzue, China. June 8, 2006.
102. Neuromotor Prostheses: From Bench to Bedside. Department of Biomedical Engineering, Zhejiang University, Hangzue, China. June 8, 2006.
103. Strategies for Successful Chronic Implantation of the Cyberkinetic Array in Primate Research Subjects. Department of Biomedical Engineering, Zhejiang University, Hangzue, China. June 8, 2006.
104. Non-Invasive Carboxyhemoglobin Monitoring: Carbon Monoxide Toxicity Screening in the Emergency Department. International Disaster Deduction Conference, Davos Switzerland, August 27-September 1, 2006.
105. Carbon Monoxide Poisoning. EMAT Emergency Medicine Congress 2006, Istanbul, Turkey. September 6-9, 2006.
106. Pandemic Influenza and Bird Flu. EMAT Emergency Medicine Congress 2006, Istanbul, Turkey. September 6-9, 2006.
107. Terrorist Threats and Bombings. EMAT Emergency Medicine Congress 2006, Istanbul, Turkey. September 6-9, 2006.
108. Key Points in Preparing Scientific Manuscripts. EMAT Emergency Medicine Congress 2006, Istanbul, Turkey. September 6-9, 2006.

109. Bioterrorism. Trauma: The Team Approach. International Trauma Anesthesia and Critical Care Society. Hilton Head Island, SC, September 28, 2006.
110. Principles of Managing Multiple Patients with Exposure to Chemical Agents. Trauma: The Team Approach. International Trauma Anesthesia and Critical Care Society. Hilton Head Island, SC, September 28, 2006.
111. Management of Mass Casualties from Fires. The Team Approach. International Trauma Anesthesia and Critical Care Society. Hilton Head Island, SC, September 29, 2006.
112. Difficult Airway Management for the Emergency Physician. The Team Approach. International Trauma Anesthesia and Critical Care Society. Hilton Head Island, SC, September 30, 2006.
113. State of the Art in Disaster Medicine. International Symposium on Emergency Medicine, Critical Care and Neurological Emergencies. King Faisal Specialist Hospital and Research Center. Riyadh, Kingdom of Saudi Arabia. November 21, 2006.
114. Non-invasive Carboxyhemoglobin Screening in the Emergency Department. International Symposium on Emergency Medicine, Critical Care and Neurological Emergencies. King Faisal Specialist Hospital and Research Center. Riyadh, Kingdom of Saudi Arabia. November 21-22, 2006.
115. Quality Indicators in the Emergency Department. International Symposium on Emergency Medicine, Critical Care and Neurological Emergencies. King Faisal Specialist Hospital and Research Center. Riyadh, Kingdom of Saudi Arabia. November 21-22, 2006.
116. Moderator for Panel on Emergency Medicine. International Symposium on Emergency Medicine, Critical Care and Neurological Emergencies. King Faisal Specialist Hospital and Research Center. Riyadh, Kingdom of Saudi Arabia. November 21-22, 2006.
117. Panelist. End of life issues, DNR, organ donation and the Islamic view-point. International Symposium on Emergency Medicine, Critical Care and Neurological Emergencies. King Faisal Specialist Hospital and Research Center. Riyadh, Kingdom of Saudi Arabia. November 21-22, 2006.
118. Grand Rounds, Martha's Vineyard Hospital, Martha's Vineyard, MA, August 3, 2007.
119. Clinical approach to Weapons of Mass Destruction. Martha's Vineyard Hospital, Martha's Vineyard, MA, August 3, 2007.

120. Management of illness resulting from biological terrorism. Martha's Vineyard Hospital, Martha's Vineyard, MA, August 3, 2007.
121. Management of chemical terrorism related injuries. Martha's Vineyard Hospital, Martha's Vineyard, MA, August 3, 2007.
122. Bomb blast injuries. Martha's Vineyard Hospital, Martha's Vineyard, MA, August 3, 2007.
123. The science of Disaster Medicine. Rhode Island Hospital Founder's Day Celebration Panel Discussion. Providence, Rhode Island, October 4, 2007.
124. Hurricane Katrina. A Case Study in Disaster Response. Trauma: The Team Approach. International Trauma Anesthesia and Critical Care Society. Key West, FL, November 8-11, 2007.
125. Biological Terrorism. Trauma: The Team Approach. International Trauma Anesthesia and Critical Care Society. Key West, FL, November 8-11, 2007.
126. Difficult Airway Management for the Emergency Physician. Trauma: The Team Approach. International Trauma Anesthesia and Critical Care Society. Key West, FL, November 8-11, 2007.
127. Chemical Agent Terrorism. Trauma: The Team Approach. International Trauma Anesthesia and Critical Care Society. Key West, FL, November 8-11, 2007.
128. Radiological Terrorism. Trauma: The Team Approach. International Trauma Anesthesia and Critical Care Society. Key West, FL, November 8-11, 2007.
129. Hospital Disaster Preparedness. Trauma: The Team Approach. International Trauma Anesthesia and Critical Care Society. Key West, FL, November 8-11, 2007.
130. Triage: Trauma activation priorities in the field. Trauma Care Crucial First Steps. Crowne Plaza Hotel, Warwick, RI. September 30, 2009.
131. Pandemic Influenza: "Ready or not, here I come". Grand Rounds, Falmouth Hospital. Faxon Conference Room, Falmouth MA, November 24, 2009.
132. Management of the Difficult Airway. 2<sup>nd</sup> Eurasian Congress on Emergency Medicine. October 29, 2010. Antalya, Turkey.
133. Visual Cases in Emergency Medicine. 2<sup>nd</sup> Eurasian Congress on Emergency Medicine. October 29, 2010. Antalya, Turkey.
134. Moderator, Visual Diagnosis. 2<sup>nd</sup> Eurasian Congress on Emergency Medicine. October 29, 2010. Antalya, Turkey.



135. Carbon Monoxide Toxicity. 2<sup>nd</sup> Eurasian Congress on Emergency Medicine. October 30, 2010. Antalya, Turkey.
136. Engineering Innovation: Forming Collaborations to Bring Operations, Design and Engineering Into Your Department. Didactic Session: Society for Academic Emergency Medicine Annual Meeting, May 9, 2012. Chicago, IL.
137. Disaster Response: Lessons Learned. Massachusetts College of Emergency Physicians Annual Meeting. May 8, 2013. Waltham MA.
138. Know and Grow: Disaster Preparedness at Lifespan Hospitals. Alpert Medical School and Rhode Island Hospital. October 8, 2013, 55 Claverick Street, Providence RI.
139. Biomedical Engineering: Translating Pixels to Perform Measurement of Hemoglobin Concentration. October 18, 2013, Wheeler School, Providence, RI.
140. LumenI: Utilizing Engineering to Develop a Device to Measure Hemoglobin Concentration Non-Invasively. October 18, 2013, Brown University, Providence RI.
141. Beyond the Classroom: Translating Passion into Scholarship. October 19, 2013, Alpert Medical School, Providence, RI.
142. The station Nightclub Fire: A Local Disaster. New England Society of Disaster Medicine Inaugural Conference. Beth Israel Deaconess Medical Center. May 12, 2014.
143. Screening, Diagnosis and Treatment of Carbon Monoxide Poisoning. Grand Rounds. University of Massachusetts Medical Center, Department of Emergency Medicine. November 5, 2014, Worcester, MA.
144. The Ebola Crisis. Lifespan Development Office. November 6, 2014, Providence RI.
145. Carbon Monoxide Toxicity for EMS. Emergency Medicine Symposium, Saint Vincent Hospital. November 8, 2014, Worcester, MA.
146. Visual Diagnosis. Meet the Expert Track. 4<sup>th</sup> Eurasian Congress on Emergency Medicine. November 14, 2014, Belek, Antalya, Turkey.
147. Blast Injury. Military Emergency Medicine Track. 4<sup>th</sup> Eurasian Congress on Emergency Medicine. November 15, 2014, Belek Antalya, Turkey.
148. Carbon Monoxide Toxicity. Toxicology Track. 4<sup>th</sup> Eurasian Congress on Emergency Medicine. November 15, 2014, Belek Antalya, Turkey.

149. Biological Incidents and Explosives. Simulation Enhanced CBRNE Medical Management Training Program. April 30, 2015. Providence, RI.
150. Disaster Medicine Related Activities in the Division of Disaster Medicine and Emergency Preparedness at the Warren Alpert Medical School of Brown University. American College of Emergency Physicians Scientific Assembly, 2015. October 28, 2015. Boston MA.
151. History of Disaster Medicine in the United States of America. King Saud University Medical City, Department of Emergency Medicine Grand Rounds. April 13, 2016. Riyadh, Kingdom of Saudi Arabia.
152. Effective Summary of Masters in Public Health Masters Thesis into a Manuscript. King Saud University Medical City, MPH Program in Disaster Medicine. April 13, 2016. Riyadh, Kingdom of Saudi Arabia.
153. Academic Writing Skills. King Saud University Medical City, MPH Program in Disaster Medicine. April 14, 2016. Riyadh, Kingdom of Saudi Arabia.
154. How to Select Journals in Disaster Medicine to Submit a Manuscript. King Saud University Medical City, MPH Program in Disaster Medicine. April 15, 2016. Riyadh, Kingdom of Saudi Arabia.
155. Understanding the Authors Guidelines. King Saud University Medical City, MPH Program in Disaster Medicine. April 16, 2016. Riyadh, Kingdom of Saudi Arabia.
156. Submission of a Manuscript. King Saud University Medical City, MPH Program in Disaster Medicine. April 19, 2016. Riyadh, Kingdom of Saudi Arabia.
157. Disaster Response in the United States of America. King Saud University Medical City, Hospital Wide Grand Rounds. April 20, 2016. Riyadh, Kingdom of Saudi Arabia.
158. Disaster Management and Response in the United States of America. International Congress on Disaster and Emergency Medicine. May 13, 2016. Ankara, Turkey.
159. Disaster Management during Hurricane Katrina. International Congress on Disaster and Emergency Medicine. May 14, 2016. Ankara, Turkey.
160. Blast Injury. International Congress on Disaster and Emergency Medicine. May 15, 2016. Ankara, Turkey.
161. The Future of Disaster Medicine. International Congress on Disaster and Emergency Medicine. May 15, 2016. Ankara, Turkey.

## GRANTS

1. Co-Investigator. A Multicenter, Randomized, Double-blind Placebo Controlled Trial of Zafirlukast (ACCOLATE) in Subjects Admitted to the Emergency Department with Asthma Exacerbations. \$248,440, 20% effort. August 1997-1998. Funded by Zeneca, Inc.
2. Principle Investigator. Disaster Medical Assistance Team Development. Health and Human Services, Office of Emergency Preparedness. \$8,000, January 2000-January 2001.
3. Principle Investigator. Disaster Medical Assistance Team Development. Health and Human Services, Office of Emergency Preparedness. \$10,000, January 2001-January 2002.
4. Principle Investigator. Rhode Island Disaster Initiative- Phase I. Health and Human Services, Office of Emergency Preparedness. Through Chemical and Biological Defense Information Analysis Center (CBIAC) CBIAC Task # 128; PO# 171284 \$393,750, 9-20-2001 through 9-30-2002.
5. Principle Investigator. Disaster Medical Assistance Team Readiness. Health and Human Services, Office of Emergency Preparedness. \$10,000, May 2001- May, 2002.
6. Principle Investigator. Disaster Medical Assistance Team Development. Health and Human Services, Office of Emergency Preparedness. \$10,000, January 2002-January 2003.
7. Principle Investigator. Rhode Island Disaster Initiative Phase 2. Office of Naval Research. Through Chemical and Biological Defense Information Analysis Center (CBIAC) \$1,500,000, August 2002-August 2003.
8. Principle Investigator. Disaster Medical Assistance Team Development. Health and Human Services, Office of Emergency Preparedness. \$125,000, January 2003- January 2004.
9. Principal Investigator: Changes in neuronal activity as a result of injury to nearby cells. Neuroscience Fellowship Award, SAEM \$60,000 July 2003-June 2004.
10. Principle Investigator. Rhode Island Disaster Initiative Phase 3. Office of Naval Research. Through Chemical and Biological Defense Information Analysis Center (CBIAC) \$600,000, February 2004-February 2005.
11. Principle Investigator. Center for Biodefense and Emerging Pathogens. \$20,500, October 1, 2005-August 31, 2006.

12. Principle Investigator. An open-label, dose-ranging evaluation of the safety and efficacy of intranasal hydromorphone hydrochloride in acute trauma subjects: Pain control in disasters. \$250,000, December 2006- September, 2007.
13. Principle Investigator. A randomized, double blind, parallel group multi-center study of intranasal hydromorphone hydrochloride in a subjects with moderate to severe pain secondary to acute trauma. \$250,000, December 2007- September, 2008.
14. Principle Investigator: Non-invasive, real-time total hemoglobin measurement utilizing inexpensive liquid crystal technology. 1R43HL090115-01Phase I SBIR, National Institutes of Health. \$127,648, September 28, 2007- September 27, 2009.
15. Principle Investigator. Non-invasive, real-time total hemoglobin measurement utilizing inexpensive liquid crystal technology. IIP-0740760 Phase I SBIR, National Science Foundation. \$99,590, January 1, 2008- June 30, 2008.
16. Principle Investigator. Rapid and non-invasive, hemoglobin determination using compact liquid crystal optical sensors. Rhode Island Science and Technology Counsel. \$180,000, September 28, 2007- September 27, 2009.
17. Co-Investigator (PI: Deborah Gutman). A Longitudinal Curriculum in Public Health for Emergency Medicine. AAMC CDC, \$25,000.
18. Principle Investigator. Open Cavity Terahertz Laser Spectroscopy for Human Breath Testing in Sepsis. R21 NIBIB ISD National Institutes for Health. Submitted, 2008.
19. Reflectance Spectroscopy (SrHgb) Measurement of Hemoglobin Concentration from the Conjunctiva NIH 2 R44 HL090115-02. PI Suner. 2010-2012, \$749,824. Submitted August 2009.
20. Non-invasive Assessment of Children and Adults with Anemia. Gates Foundation. PI Suner. 2010-2011. \$100,000.
21. Protocol Number MI-CP186 MEDI-563 “A Phase 2, Multicenter, Randomized, Double-blind, Placebo controlled Study to Evaluate the Safety and Efficacy of Intravenously Administered MEDI-563, A Humanized Antiinterleukin-5 Receptor Alpha Monoclonal Antibody, on Asthma Control Following Acute Exacerbations in Adults”. Site Co-PI Suner; 2009-2010, \$90,000.
22. Topcoat. “Randomized trial of Tenecteplase to treat Severe Submassive Pulmonary Embolism”. Site Co-PI. 2009-2010. \$70,000.
23. Protocol 087-CL-301 “A Phase 3b, Randomized, Double-Blind, Placebo-Controlled, Multi-Center Study to Assess the Safety and Efficacy of Conivaptan in Symptomatic Acute Decompensated Heart Failure (ADHF) Subjects with

Hyponatremia”. Astellas. Site PI Suner. 2009-2010. \$71,692. Funded. Study Terminated.

24. Protocol SUNE0001. “Comparing measurement of carboxyhemoglobin and total hemoglobin by a noninvasive device to a blood concentration in emergency department patients”. Masimo Corporation, Irvine CA. PI: Suner 2016-2017. \$210,992,02. Funded.

### **PATENTS**

1. **Suner S.** Inventor: Non-Invasive Determination of Blood Components. United States patent Issued: May 4, 2010. 7,711,403. Japanese Patent Issued: March 5, 2010. 4,467,238. Rhode Island Hospital, A lifespan Partner  
Date of Filing 05.04.02, European Patent Office Application Number: 02736548.5-2305-US0210804

### **UNIVERSITY TEACHING ROLES**

1. Faculty for “skills course” for Brown University School of Medicine: July 25 and 1997;
2. Sponsored Corey Neu, an undergraduate student in Engineering, in the Laboratory for an independent study project developing a novel approach to measure ventilation volume in a CPR mannequin. Rhode island Hospital, Providence, RI, Spring semester 1997.
3. Participated in teaching undergraduate students in the Brown University course BC007 *Cost vs. Care: The Dilemma for American Medicine*, 1997,1998 and 1999.
4. Course Director for a Regional Seminar: Hospital Provider Course: Defense Against Weapons of Mass Destruction. March 22 and March 25, 1999, Rhode Island Hospital, Providence, RI.
5. Faculty for Advanced Cardiac Life Support Course for third year medical students: 12-Lead ECG, Myocardial Infarction and Stroke. Brown Medical School, Providence, RI, July, 1999; July, 2000, Airway management techniques and oral intubation, Brown Medical School, June 25, 2001. (~60 students)
6. Course Director for BioMed 348: Nuclear, Biological, Chemical Weapons of Mass Destruction: Domestic Preparedness Training. May 2-9, 2000 at Rhode Island Hospital.
7. Course Director for a Regional Seminar: Hospital Provider Course: Defense Against Weapons of Mass Destruction. June 1, 2000, Newport Hospital, Newport RI.
8. Lectures for Biology and Community Health 152 Emergency Medical Services: An

Anatomy of Critical Performance. Case of the EMS system in action: From frozen Pond to Pediatric Intensive Care Unit. February 2, 2000. (~70 students)

9. Junior Year Affinity Program Faculty Leader: International Medicine and Health Care. 2001-2004. (~8 students)
10. BI540: The Community Health Clerkship, Disaster Medicine Section Director, 2001-present (Zachary Litvack, Jason Bonomo, Christina Pacheco, Brian Kwong, James Suh, Robert Dyer, Edward Jung, Clifford Meyers (2007), Scott Nguyan (2007), Michael Wang (2007), Mark D'Agastino (2007), Christina Salvidar (2009), Angela Hua (2011)).
11. Summer of 2001 Selective Program for Tufts University School of Medicine: Introduction to Emergency Medicine (Hanna Ahmed M04).
12. Directed and taught BioMed 348: Nuclear, Biological, Chemical Weapons of Mass Destruction: Domestic Preparedness Training. May 1-9, 2001, Rhode Island Hospital, Providence, Rhode Island.
13. Course Director for a Regional Seminar: Disaster Preparedness and Weapons of Terrorism. November 23, 2001, Airport Radisson, Warwick, Rhode Island.
14. Suturing Techniques and Practicum for third year medical students, Brown Medical School, Veterans Administration Hospital, Providence, RI, June 29, 2001. (~60 students)
15. BI540: The Community Health Clerkship Profiles in Community Health seminar on Thursday, May 9, 2002.
16. Directed and taught BioMed 348: Nuclear, Biological, Chemical Weapons of Mass Destruction: Domestic Preparedness Training. May 6-10, 2002, Rhode Island Hospital, Providence, Rhode Island.
17. Lectures for Critical Care Fellowship Program (~12 students):

1-18-2002	Carbon Monoxide Toxicity
2-4- 2003	Carbon Monoxide Intoxication
2-2-2004	Advances in the Treatment of CO Toxicity
18. Shadow Program: 2002 (Susanne Kumbers, Stacey DiPalma)
19. Sponsored Joshua Pasteur for a summer internship in disaster medicine, June-September, 2002
20. Lectures for Biology and Community Health 152 Emergency Medical Services: An Anatomy of Critical Performance. Case of the EMS system in action: From frozen Pond to Pediatric Intensive Care Unit. February 18, 2004. (~60 students)
21. Lectures for Biology and Community Health 152 Emergency Medical Services: An

Anatomy of Critical Performance. Case of the EMS system in action: The Nightclub Fire: Implications for a Revised Mass Casualty Plan. February 25, 2004.

22. Introduction to High Fidelity Simulation. “So you want to be a Doctor” Brown University Summer Program for High School students. Approximately 20 students July, 13, 2004.
23. Simulation-based Training for Emergency Preparedness (STEP) regional seminar. Organized and conducted for Landmark Medical Center, July 14, 2004, The Rhode Island Hospital Medical Simulation Center. Lectures include:
  - i- Introduction to weapons of destruction
  - ii- Bomb blast and burns
  - iii- Bioterrorism
  - iv- Chemical agents
  - v- Personal protective equipment
24. Simulation-based Training for Emergency Preparedness (STEP) regional seminar. Organized and conducted for Saint Josephs Health System, July 28, 2004, The Rhode Island Hospital Medical Simulation Center. Lectures include:
  - i- Introduction to weapons of destruction
  - ii- Bomb blast and burns
  - iii- Bioterrorism
  - iv- Chemical agents
  - v- Personal protective equipment
25. Simulation-based Training for Emergency Preparedness (STEP) regional seminar. Organized and conducted for Women and Infants’ Hospital, August 4, 2004, The Rhode Island Hospital Medical Simulation Center. Lectures include:
  - i- Introduction to weapons of destruction
  - ii- Bomb blast and burns
  - iii- Bioterrorism
  - iv- Chemical agents
  - v- Personal protective equipment
26. Simulation-based Training for Emergency Preparedness (STEP) regional seminar. Organized and conducted for The Miriam Hospital, August 11, 2004, The Rhode Island Hospital Medical Simulation Center. Lectures include:
  - i- Introduction to weapons of destruction
  - ii- Bomb blast and burns
  - iii- Bioterrorism
  - iv- Chemical agents
  - v- Personal protective equipment
27. BMS-1 Professional Development Program  
Patient Safety and Medical Simulation 60 (students)  
*Faculty for new program to introduce students to medical error management*  
January 11, 2005, Medical Simulation Center, Providence, Rhode Island

28. Eleventh Annual Stanley D. Simon, MD, Lecture and Forum. Aaron Friedman, MD, "Are All Physicians Effective Leaders?" Role: discussion facilitator. February 2, 2005, Brown University, Providence Rhode Island.
  
29. Simulation-based Training for Emergency Preparedness (STEP) regional seminar. Organized and conducted for The Miriam Hospital, April 6, 2005, The Rhode Island Hospital Medical Simulation Center. Lectures include:
  - i- Introduction to weapons of destruction
  - ii- Bomb blast and burns
  - iii- Bioterrorism
  - iv- Chemical agents
  - v- Personal protective equipment
  
30. ALANA Mentoring Program: 2005-present (Yimo Lin).
  
31. Collaborations in Biomedical Engineering. Supporting Faculty. November 9, 2005 Providence, RI
  
32. Simulation-based Training for Emergency Preparedness (STEP) regional seminar. Organized and conducted for Memorial Hospital, August 17, 2005, The Rhode Island Hospital Medical Simulation Center. Lectures include:
  - i- Introduction to weapons of destruction
  - ii- Bomb blast and burns
  - iii- Bioterrorism
  - iv- Chemical agents
  - v- Personal protective equipment
  
33. Simulation-based Training for Emergency Preparedness (STEP) regional seminar. Organized and conducted for Roger Williams Hospital, August 31, 2005, The Rhode Island Hospital Medical Simulation Center. Lectures include:
  - i- Introduction to weapons of destruction
  - ii- Bomb blast and burns
  - iii- Bioterrorism
  - iv- Chemical agents
  - v- Personal protective equipment
  
34. Simulation-based Training for Emergency Preparedness (STEP) regional seminar. Organized and conducted for South County Hospital, September 7, 2005, The Rhode Island Hospital Medical Simulation Center. Lectures include:
  - i- Introduction to weapons of destruction
  - ii- Bomb blast and burns
  - iii- Bioterrorism
  - iv- Chemical agents
  - v- Personal protective equipment



35. Simulation-based Training for Emergency Preparedness (STEP) regional seminar. Organized and conducted for Westerly Hospital, October 12, 2004, The Rhode Island Hospital Medical Simulation Center. Lectures include:
  - i- Introduction to weapons of destruction
  - ii- Bomb blast and burns
  - iii- Bioterrorism
  - iv- Chemical agents
  - v- Personal protective equipment
36. Supporting Faculty for a pilot Brown-RISD double credit course: Critical Design: from disaster to daily life. Brown Engineering + RISD Industrial Design :: studio. Semester 1, 2005-2006.
37. Simulation-based Training for Emergency Preparedness (STEP) regional seminar. Organized and conducted for Roger Williams Hospital, November 23, 2005, The Rhode Island Hospital Medical Simulation Center. Lectures include:
  - i- Introduction to weapons of destruction
  - ii- Bomb blast and burns
  - iii- Bioterrorism
  - iv- Chemical agents
  - v- Personal protective equipment
38. Sponsor for Independent Study project for Emily Clarke-Pearson BMS-III, Medical Care of Evacuees from New Orleans in a special needs clinic in Houston Texas. October, 2005.
39. "Focus on the Future": Careers in emergency medicine. Panel discussion. February 1, 2006, ~50 participants.
40. Supporting Faculty for Brown-RISD Industrial design double credit course, focusing on medical devices. Brown Engineering + RISD Industrial Design studio. Semester II, 2005-2006.
41. Faculty Advisor and Mentor for Engineering Graduate Student John McMurdy for development of non-invasive hemoglobin monitoring system (2004-present). Winner of the National Collegiate Inventors and Innovators Alliance, second-place prize for developing AnemiaCAM May, 2006.
42. Faculty, Doctoring Course for Candice Coleman. 2006-2008.
43. Director: Scholarly Concentrations in Disaster Medicine and Emergency Preparedness, 2007-present. (Students: Zara Matthews and Ryan Tai for 2008-2011; Angela Hua 2009-2012)
44. Faculty Mentor for Anthony Napoli (junior faculty member in the Department of Emergency Medicine) 2007-present.

45. The engineering-physician collaboration. Brown/RISD Fusion (Design+Engineering) event. February 5, 2008.
46. New Technologies in Disaster Response. Topics in Translational Research, Division of Engineering. February 15, 2008.
47. New Modalities in the Triage of Acute Medical Emergencies. Topics in Translational Research, Division of Engineering. March 7, 2008.
48. Director, Brown Advanced Emergency Medicine Academies (BAEMA) Disaster Medicine Training Program:
  - International Participant, Emine Baris, MD, Ministry of Health, Izmir, Turkey; December 15, 2007-March 16, 2008.
  - International Participant, Rakan Alrashid, MD, Kingdom of Saudi Arabia; June 1, 2009, August 31, 2009.
  - International Participant, Mehmet Eryilmaz, MD, Department of Emergency Medicine and Surgery GATA Military Medical Academy, Ankara, Turkey; December 1, 2010-November 30, 2011.
  - International Participant, Sami Yousif, MD. Kingdom of Saudi Arabia; May 1, 2012- April 31, 2013.
  - International Participant, Abdulaziz Dawas, MD. Kingdom of Saudi Arabia; May 1, 2012- April 31, 2013.
  - International Participant, Anas Murad Alhassan MD. Kingdom of Saudi Arabia; September 1, 2013- August 31, 2014.
  - International Participant, Mohammad Saeed Alotaibi MD. Kingdom of Saudi Arabia; January 1, 2014- December 31, 2016.
  - International Participant, Yasser Alaska. Kingdom of Saudi Arabia; June 1, 2014-May 30, 2015.
  - International Participant, Saeed Alzahrani. Kingdom of Saudi Arabia; July 1, 2014- June 30, 2015.
  - International Participant, Mishal Alenazi. Kingdom of Saudi Arabia; January 1, 2015-December 31, 2015.
  - International Participant, Khalid Alassaf. Kingdom of Saudi Arabia; September 1, 2015-August 31, 2016.
  - International Participant, Saad Albaiz. Kingdom of Saudi Arabia; March 1, 2015-February 29, 2016.

- International Participant, Bandar Almutairi. Kingdom of Saudi Arabia; August 1, 2015-July 30, 2016.
- International Participant, Ahmad Mahah. Kingdom of Saudi Arabia; December 1, 2015-November 30, 2016.
- International Participant, Guclu Aydin. Department of Emergency Medicine and Surgery GATA Military Medical Academy, Ankara, Turkey. January 1, 2016-December 31, 2017.
- International Participant, Rashmi Sharma. Nepal. June 1, 2016-May 31, 2017.
49. Mentor for Angela Hua, senior PLME student for developing a database for tracking injury and illness patterns in rescue workers after the 9-11 World Trade Center Disaster in NYC Summer 2008.
  50. Director, International Emergency Medicine Training Program.  
Participant, Bedia Gulen from Dokuz Eylul University Medical Center, Izmir, Turkey. October 5-November 4, 2008.  
Participant, Rakan Al-Rasheed, KAMC-NGHA residency in Emergency Medicine, Riyadh, Kingdom of Saudi Arabia. November 1-December 1, 2009. Ibrahim Arziman, MD June 1-July 15, 2012, Ankara Turkey. Ozge Cetinkaya MD July 1, 2013-August 1, 2013 Izmir Turkey. Sebnem Nebi MD, July 1, 2013-August 1, 2013 Izmir Turkey.
  51. Panel member, Scholarly Concentrations Program Fair. Brown University, November 10, 2008.
  52. Panel member, Global Health Initiatives. Brown University, November 11, 2008.
  53. Scholarly Concentrations Poster presentations Judge, January 28, 2009.
  54. Technologies from Bench to the Emergency Department. EN 291-S: Topics in Translational Research, Division of Engineering. February 13, 2009.
  55. Neurotechnology. Centuries of Science to assist patients. EN 291-S: Topics in Translational Research, Division of Engineering. February 13, 2009.
  56. Difficult Airway Training. Emergency Medicine Residency Training program. June 1, 2009.
  57. Co-Director of Scholarly Concentrations Program in Medical Technology. 2009-present (Students: Peter Davis, Christopher Prendergast, Jessica Feldman and Candice Sheldon, John Luo, Jeffery Guinette)
  58. Shadow Program: 2009 (Marilyn Moore)

59. Summer Showcase, Poster Judge. Andrews Dining Hall, December 9, 2009.
60. Course Leader, Longitudinal Ambulatory Clerkship. Student: Benjamin Schnapp. January 1, 2010- June 30, 2010.
61. Doctoring Mentor, 2010-2011. Student Jeffrey Guinett.
62. Summer Showcase, Poster Judge. Andrews Dining Hall, 2010.
63. Course Advisor for “The Bionic Human”, an elective course in the Alpert Medical School of Brown University.
64. Co-Leader, Technologies from Bench to the Emergency Department. EN 291-S: Topics in Translational Research, Division of Engineering, 2011-2014.
65. Workshop on “Mobility”. Presenter: Elderly Falls in the Emergency Department”. Sponsored by the Offices of the Vice Presidents for Research for both Brown University and the Lifespan Hospital System & the Center for Clinical and Translational Sciences (CCTS) & the Norman Prince Neurosciences Institute. Feb 11, 2011, Providence, RI.
66. Faculty for Doctoring Course; Rachel Marano 2011-2012.
67. Faculty for Doctoring Course; Justin Glavis-Bloom and Carmen Shulman 2012-2013.
68. Faculty for Senior Design Course; Brown University Engineering/RISD Industrial Design. Topic: Healthcare Associated Infections. 2012-2013.
69. Panelist. Health Entrepreneurship Panel. PLME Senate Whole Physician Program. Bio-Med Center Brown University 11-1-2012.
70. Faculty for Independent Study Course: From Across the Table: A guide for Academic Entrepreneurs. John Luo, November, 2012.
71. Faculty for “Longitudinal Patient Care in Emergency Medicine”. Thomas Scupp. October 2012-April 2013.
72. Preclinical Faculty Elective Sponsor: Entrepreneurism. Warren Alpert Medical School of Brown University. 2012-2014.
73. Course Leader, Longitudinal Ambulatory Clerkship. Student: Thomas Scupp. December 1, 2012- May 30, 2013.
74. Faculty for Doctoring Course: Hyeon Ju Ryoo and Abdul Wasey, 2013-2014.
75. Thesis Committee: An In Vitro Approach Toward a Treatment for CACP: Articular Osteochondral Explant Friction Reduction by rhPRG4 in the absence of

- Native PRG4. Ramon Castillo for Master in Science in Biotechnology in the Division of Biology and Medicine, Brown University. 2014.
76. Research Mentor for Kevin Ryan, MD (Fellow in Disaster Medicine, Beth Israel Deaconess Medical Center, Harvard University, Boston, MA. Use of formal field Triage in Mass Casualty Events. 2014-2015.
  77. Research Mentor for Heather Rybasck, Disaster Medicine. 2015.
  78. Research Mentor for Jonathan Ameli, Disaster Medicine. 2015.
  79. Course Director. Simulation Enhanced CBRNE Medical Management Training Program. April 30, 2015. Providence, RI.

### **HOSPITAL TEACHING ROLES**

1. Organization and supervision of and responsibility for training faculty for Advanced and Surgical Airway Tutorial utilizing anesthetized swine for residents and fellows in Emergency Medicine
2. Emergency Medicine Oral Board Examination Training Instructor: 1998, 2000, 2014.
3. Course Director for: A Seminar for Health Care Providers: Nuclear, Biological and Chemical Weapons of Mass Destruction. Airport Radisson Hotel, Warwick, Rhode Island, November 21, 2001.
4. Lectures for Brown University/Rhode Island Hospital Residence Program in Emergency Medicine (48 residents):

Trauma: Evaluation of the impaired patient  
 Immunology: Autoimmune diseases  
 Skin and Soft Tissue Infections  
 Disaster Medicine and DMAT's  
 Field and Hospital Triage  
 Allergic Reactions and Anaphylaxis  
 Hyperbaric Oxygen Treatment  
 Aeromedical Transport  
 Electrical and Lightning Injuries  
 Terrorism- A Challenge in Disaster Preparedness  
 Introduction to Weapons of Mass Destruction Preparedness  
 Biological Agents as Weapons of Mass Destruction  
 An Introduction to Organized Response to Disaster  
 Skin and Soft Tissue Infections  
 Shock  
 Back Pain  
 An Introduction to Disaster Medical Assistance Teams

Visual Cases from the Rhode Island Hospital Emergency Department (June 27, 2001)  
 Federal Response to Large Disasters: WTC 9-11-2001 (October 22, 2001)  
 Injuries Among Workers at a Large Disaster Site (April 22, 2002)  
 Multielectrode single unit recording from monkey motor cortex (April 22, 2002)  
 An Introduction to Disaster Medicine (July 3, 2002)  
 Dengue Fever (Jan. 2003)  
 "To see is to Believe" Case Studies in Emergency Medicine (December 19, 2004)  
 Preparedness for the next disaster: Admonitions from 1918 (January 17, 2005)  
 Hospital Emergency Response Team (November 14, 2005)  
 Crush Syndrome Management (November 14, 2005)  
 Emergency Department Management of Carbon Monoxide Toxicity (September 20, 2006)  
 Influenza H5N1 Testing in the Emergency Department (November 1, 2006)  
 Research Update: Intranasal Hydromorphone in Trauma for Military and Disaster Applications (November 15, 2006)  
 Learning emergency medicine through pattern recognition (2007)  
 A case of missed ectopic pregnancy, CPC presentation (September, 2007)  
 Carbon Monoxide Toxicity (October, 2008)  
 Visual Cases from the Emergency Department (December, 2008)  
 Lateral Canthotomy and inferior cantholysis (September, 2011)  
 The role of Lasix in acute decompensated heart failure (January, 2012)  
 Management of the difficult Airway (2012)  
 Know and Grow: Disaster Preparedness at Lifespan. (October 8, 2013)

5. Faculty for ATLS Courses (~30 students per class):
 

6/ 17-18, 1996	Pediatric Trauma, Trauma in Pregnancy lectures
7/ 15-16, 1996	Injury due to Burns and Cold lecture, Spine and Thoracic x-ray practical station
2/ 24-25, 1997	Shock lecture and IV/shock , Spine x-ray, Triage Scenarios practical stations
6/16-17, 1997	Airway Management and Shock lectures and Spine x-ray practical stations
7/28-29, 1997	Thoracic Trauma lecture, Thoracic x-ray and Triage Scenarios practical stations
6/18-19, 1998	Airway and Ventilatory Management Lecture; Airway and Ventilatory Management practical skills station; Head Trauma Lecture; Head and Neck Trauma Assessment and Management Practical Station; Initial Assessment Skills Stations
7/27-28 1998	Head Trauma Lecture, Head and Neck Trauma Assessment and Management Practical Station and Initial Assessment Skills Stations
7/13/1999	Surgical Skills Practicum
10/20/99	Initial Assessment; Airway and Ventilatory Management; Airway and Ventilatory Management Practical Skills Station

- |            |   |
|------------|---|
| 7/12/2000  | Musculoskeletal Trauma Lecture and practical skills station   |
| 10/18/00   | Initial Assessment; Airway and Ventilatory Management; Airway and Ventilatory Management Practical Skills Station |
| 6/13/2001  | Initial Assessment; Airway and Ventilatory Management; Airway and Ventilatory Management Practical Skills Station |
| 6/14/2003  | Airway and Ventilatory Management; Airway and Ventilatory Management Practical Skills Station                     |
| 7/7/2004   | Thoracic Trauma Lecture and Practical Skill Station.  |
| 10/14/2004 | Airway and Ventilatory Management; Airway and Ventilatory Management Practical Skills Station                     |
| 6/15/2005  | Airway and Ventilatory Management; Airway and Ventilatory Management Practical Skills Station                     |
| 6/13/2006  | Airway and Ventilatory Management; Airway and Ventilatory Management Practical Skills Station                     |
| 10/21/2007 | Airway and Ventilatory Management; Airway and Ventilatory Management Practical Skills Station                     |
| 6/9/2008   | Airway and Ventilatory Management; Airway and Ventilatory Management Practical Skills Station                     |
| 7/13/2009  | Shock Management; Shock Management Practical Skills Station   |
| 9/5/2009   | Airway and Ventilatory Management; Airway and Ventilatory Management Practical Skills Station                     |
| 6/27/2010  | Airway and Ventilatory Management; Airway and Ventilatory Management Practical Skills Station                     |
6. Faculty for PALS Courses:
- |               |   |
|---------------|---|
| 9/9, 1996     | Cardiac arrest, Dysrhythmias  |
| 12/6-7, 1996  | Pediatric Trauma, Vascular access   |
| 5/ 9-10, 1997 | Pediatric Trauma  |
| 6/10, 1997    | Cardiac arrest/Dysrhythmias   |
| 7/16-17, 1997 | Advanced Airway Management and Intubation, Vascular access, Respiratory failure |
| 7/ 29, 1997   | Pediatric Trauma  |
| 7/8/98        | Recognition of shock and Respiratory Failure lecture                            |
| 2/25/1998     | Cardiac Rhythm Disturbances Lecture   |
| 1/27/99       | Pediatric Trauma  |
| 4/14/99       | Pediatric Trauma  |
| 4/30/99       | Cardiac Rhythm Disturbances (Toby Hospital, MA)                                 |
| 8/19/99:      | Pediatric Trauma  |
| 7/21/2000     | Pediatric Trauma  |
7. Faculty for PBTL Course: Burn Care

8. Faculty for Paramedic Continuing Medical Education Programs:
  - 6/28/98 Pre-Hospital Burn Care
  - 7/10/99 Hyperbaric Oxygen Therapy
  - 7/10/99 Diving Related Injuries and Illness
  - 10/26/99 Biological Agents as Weapons of Mass Destruction
  
9. Medical Director for emergency medical technician training programs (East Bay Medical Educators):
  - 2003 EMT-B Program (Edward Jernigan NREMT-P, IC)
  - 2003 EMT-B Refresher Program (Edward Jernigan NREMT-P, IC)
  - 2003 EMT-C Refresher Program (Edward Jernigan NREMT-P, IC)
  - 2003 EMT-P Refresher Program (Edward Jernigan NREMT-P, IC)
  - 2004 EMT-B Program (Edward Jernigan NREMT-P, IC)
  - 2004 EMT-B Refresher Program (Edward Jernigan NREMT-P, IC)
  - 2004 EMT-C Refresher Program (Edward Jernigan NREMT-P, IC)
  - 2004-present EMT-P Refresher Program (Edward Jernigan NREMT-P, IC)
  - 2005-present EMT-P Program (Edward Jernigan NREMT-P, IC)
  
10. Disaster and Event Medicine Clinical Elective Director for:
  - John Jardine MD
  - Scott King MD
  - Kyle McClaine MD
  - David Marcozzi MD
  - David Dreitlein MD
  - Katherine Pryde MD
  - Peter Graves MD
  - Kavita Babu MD
  - Scott Durgin, MD
  - Kieth Corl, MD 2008
  - Mason Bragg, MD 2008, 2009
  - Matthew Sikit, MD 2009
  - Jamison Cohn, MD 2009
  - John Haran, MD 2009
  - Stepanie Sipple, MD 2010
  - Garreth Debiegun, MD 2010
  - Elizabeth Goldberg, MD 2010
  - Arlene Chung, MD 2012
  
11. Research Elective Director for:
  - David Marcozzi MD Male GU Conditions. 1999-2001.
    - Diaphragmatic rupture in blunt trauma: A photographic case study.
    - Carbon Monoxide mass-poisoning. A Case series. 2001.
  
  - David Dreitlein MD Male GU Trauma. 1999-2001.
    - Out-of –hospital wound care. 2002-
    - Injuries to rescue workers during the World Trade Center Rescue and Recovery Operation in New York City.



- Kevin Ernsting MD Predicting serum hemoglobin using digital images of conjunctiva. 1999-2001
- Jeffrey Lubin MD Cricoid pressure in RSI: Current practice. 2000-2002
- Jeffrey Zack MD Hyperthermia: An internet based lecture presentation for the National Disaster Medical System. 2001.
- Katherine Pryde MD The NMRT-DMAT interface in WMD incidents. 2001.
- Kavita Babu MD Resident physician involvement in Disaster Medical Assistance Teams. 2002.
- Scott Durgin MD International Disaster Medicine (Chuuk, FSM), 2003.
- Craig Sisson, MD Injuries among workers during the search, rescue and recovery phases of the World Trade Center 9-11-2001 response. 2005-2007.
- Douglas Nilson, MD Pre-hospital non-invasive carbon monoxide monitoring in the emergency medicine services system. 2008-2009.
- John Haran, MD The immune system during influenza infection. 2009-2011.
12. Faculty Advisor for:  
Scott King, MD, 2000, Rhode Island Hospital and Brown University Residency Program in Emergency Medicine.
- Frantz Gibbs, MD, 2001, Rhode Island Hospital and Brown University Residency Program in Emergency Medicine.
13. Faculty for Simulation Enhanced Advanced Cardiac Life Support (ACLS) for Lifespan Residents (67 students). Acute Coronary Syndrome and Cerebrovascular Accident; Simulation enhanced Ventricular tachycardia, myocardial infarction scenario. June 21-22, 2005.
14. Research Advisor for Kerlan Chee, MD. Non-invasive carboxyhemoglobin screening in the emergency department: establishing baseline values for the population. 2005-2006. (Best Presentation Award, New England Regional Society of Emergency Medicine Conference, Shrewsbury, MA, April 2006).
15. Faculty for Simulation Enhanced Advanced Cardiac Life Support (ACLS) for Lifespan Residents (90 students). Acute Coronary Syndrome and Cerebrovascular Accident; Simulation enhanced Ventricular tachycardia, myocardial infarction scenario. June 19-20, 2006.

16. Simulation-based assessment of endotracheal intubation proficiency for paramedic students. August 7, 2008.
17. Internal Medicine post-graduate year 2 SimCode Airway and Leadership Course. 10/28/2008.
18. Internal Medicine post-graduate year 2 SimCode Airway and Leadership Course. 11/18/2008.
19. Faculty Research Advisor for John Haran. Immunological function during influenza infection. 2008-2011.
20. Faculty Research Advisor for Douglas Nilson, MD. Pre-hospital non-invasive carbon monoxide monitoring in the emergency medicine services system. 2008-2009.
21. Faculty Research Advisor for Sami Yousif, MD. Intubation in PPE Utilizing Video Laryngoscopy. 2011-2012.
22. Faculty Research Advisor for Brian Chong, MD. Effect of Ambulance Exhaust on Environmental Pollutants in the Emergency Department. 2012-2014.
23. Faculty Research Advisor for Anas Alhassan, MD. Factors effecting faulty triage in a busy urban emergency department. 2013-2014
24. Faculty Research Advisor for Mohammed Alotaibi, MD. Prevalence of occult carbon monoxide exposure in the pediatric population 2014-2015.
25. Faculty Research Advisor for George J MD. Carbon Monoxide Concentrations Induced by Cigarette Smoking Outdoors in Typical Smokers 2014-2016.