

Curriculum Vitae**JOSEPH HILARY McISAAC III, MD, MS, MBA, CPE, FASA****CIVILIAN CAREER****Present Employment****Partner****Chair of the Quality and Practice Committee****Integrated Anesthesia Associates, LLC**

99 East River Drive, 5th Floor

East Hartford, CT 06108

+1-860-972-2117

**Supervisory Medical Officer, GS-602-15**

Trauma and Critical Care Team, National Disaster Medical System

Administration for Strategic Preparedness and Response

Department of Health and Human Services

Effective: August 28, 2011

**Civilian Education****London School of Economics and Political Science**

Certificate

Risk and Crisis Management

London, UK

**Degree, Year****2023****Director Certified****Accelerate, Board Professionalism Program**

National Association of Corporate Directors

Arlington, VA

**Certified 2023-2025****London School of Economics and Political Science**

Certificate

Business, International Relations and the Political Economy

London, UK

**2021****Saïd Business School, Oxford University**

Certificate

Oxford Entrepreneurship: Venture Finance Programme

Oxford, UK

**2020****Sloan School of Management,****Massachusetts Institute of Technology**

Certificate

Artificial Intelligence: Implications for Business Strategy

Cambridge, MA

**2019**

<b>Saïd Business School, Oxford University</b> Certificate, Oxford Blockchain Strategy Programme Oxford, UK	<b>2018</b>
<b>New York Institute of Finance</b> Certificate in Mergers and Acquisitions New York, NY	<b>In progress</b>
<b>SDA Bocconi University</b> Certificate in Private Equity and Venture Capital Milan, Italy	<b>2018</b>
<b>Isenberg School of Management</b> <b>University of Massachusetts Amherst</b> Amherst, MA	<b>MBA, 2017</b>
<b>University of St. Andrews</b> <b>Centre for the Study of Terrorism and Political Violence</b> Certificate in Terrorism Studies Fife, Scotland, UK	<b>2012</b>
<b>Massachusetts Institute of Technology</b> <b>Sloan School of Management</b> Executive Certificate in Management and Leadership Cambridge, MA	<b>2010</b>
<b>Rensselaer Polytechnic Institute</b> (Hartford Graduate Center) Hartford, CT	<b>MS, Biomedical Engineering, 1997</b>
<b>Residency in Anesthesiology</b> <b>Hartford Hospital</b> Hartford, CT Subspecialties: Cardiovascular and Thoracic Anesthesia, Pediatric Anesthesia, Urological Anesthesia	<b>1989</b>
<b>Transitional Residency (Internship)</b> <b>Hartford Hospital</b> Hartford, CT	<b>1986</b>
<b>University of Connecticut School of Medicine</b> Farmington, CT	<b>MD, 1985</b>
<b>Case Western Reserve University</b> Cleveland, OH	<b>BA, <i>cum laude</i>, Chemistry, with Departmental Honors in</b>

Chemistry. Minors: Biology  
and Psychology, 1981

## **Areas of Expertise and Interest**

### **Biomedical Engineering**

Biological heat transfer

Neuro-physiological monitoring during surgery (Evoked Potentials, EEG, BIS, Infra-red)

Functional medical imaging (Ultrasound, Infra-red, Laser, Radiofrequency, Microwave, MRI)

Electromagnetic interference and compatibility of medical devices (EMI/EMC)

Cardiac and vascular fluid mechanics

Biomedical signal processing- advanced stethoscope prototype being developed

Virtual instrument design for medical applications- anesthesia information system design

Biological interactions with electromagnetic radiation

Industrial espionage prevention/counterintelligence

Undergraduate and pre-college science and engineering education

Mathematical modeling and control of physiologic systems

### **Medical**

Management of Nuclear, Chemical, and Biological Casualties

Decontamination and personal protection

Disaster medicine and preparedness, mass casualties

Response to Terrorism

Austere Environments

Public health and population-based disease prevention/ Tropical medicine

Medical simulation training

Cardiac anesthesia

Echocardiography and ultrasonography

Pediatric anesthesia

Bleeding disorders during surgery

Brain protection during surgery

Perioperative temperature management

Trauma resuscitation

Urological anesthesia

### **Military**

Nuclear, Chemical, and Biological Warfare Defense

Electromagnetic pulse protection

Electronic warfare defense

Antenna design—stealthy, re-configurable, and plasma-based antennas

Intelligence

Communications Technology

Force and infrastructure protection

### **Business**

Venture Capital, Private Equity, Mergers and Acquisitions

Sustainable/resilient Global Medical Enterprise

Medical Device Development

Business Intelligence, Artificial Intelligence  
 Blockchain, Big Data Analysis  
 High Reliability Organizations  
 Analysis of very large data sets/multi-dimensional visualization  
 Geospatial Analysis (GIS) and Geospatial Statistics  
 Network Analysis

### **Software Experience**

Excel, Mathematica, Matlab, Scilab, Octave, MathCAD, ArcGIS, GeoDa, LabVIEW

### **Research Experience**

- 2012-2015 Blood and crystalloid flow through needleless connectors during resuscitation events.
- 2012-2013 KETIVTRD2002-Phase 2a, Ketamine IV, JNJ-64409, Janssen Research and Development, Johnson & Johnson, Inc. Treatment of depression with intravenous ketamine. Participating Investigator.
- 2010-2013 Medical devices for austere environments and underdeveloped countries: Wearable, light-weight negative pressure cooling pump and heat exchanger for a surgical cooling garment for operating rooms and chemical protective garments  
 Man-portable field deployable sterile intravenous fluid generation device  
 3-D Ultrasound visualization using inexpensive off-the-shelf components and LabVIEW Virtual instruments
- 2009-2012 Side Channel Attacks and Security in Medical Devices, Electronic Health Records, and Medical Operations
- 2009-2010 Seizure Simulation Device for the Laerdal SimMan<sup>®</sup> (Trinity College students won Travelers Award for best Senior Project)
- 2006-2012 Novel Operating Room Positioning/Decubitus Ulcer Prevention Device
- 2003-2012 Non-invasive intra-operative Temperature Measurement (Brain Temperature Tunnel)  
 Handheld Echocardiography for Orthopedic Surgery
- 2000-2014 Virtual Instrumentation for Anesthesia Using National Instruments LabView<sup>®</sup>  
 -Enhanced Esophageal Stethoscope with Signal Processing  
 -Automated Anesthesia Control System
- 1999-2013 Intra-operative Heat Transfer Device (10<sup>th</sup> stage commercial device in clinical trials in collaboration with Hamilton Sundstrand and Hartford Hospital- US Patents #6,349,412, February 26, 2002; #6,547,862, April 15, 2003.  
 Neurological Biosignal Analysis During Anesthesia (Evoked Potentials, EEG, BIS)  
 Electromagnetic Compatibility of Cellular Telephones and Anesthesia Equipment
- 2000-2002 Plasma Antennas
- 1996-1997 Medical Radar Design for Body Imaging  
 Anesthesia Personnel Exposure to Radio-frequency.  
 Electromagnetic Fields.  
 Anesthesia Personnel Exposure to Extremely Low Frequency  
 Electromagnetic Fields.
- 1995-1999 Vascular Impedance Measurements and Higher Order Modeling

- of the Cardiovascular System Using Impulse Response Methods
- 1993-1996 Electromagnetic Interference to Anesthesia Devices.
- 1992-1995 Analysis of Blood Coagulation During Radical Retropubic Prostatectomy Using the Thrombo-elastograph.
- 1992 Participating Investigator, Burroughs-Wellcome Mivacron<sup>®</sup> Study.
- 1990-1991 Pilot Study to determine clinical utility of Sonoclot<sup>®</sup> Coagulation Analyzer in diagnosing post-cardiopulmonary bypass coagulopathy.
- 1987-1990 Designed and implemented retrospective study of the effects of anesthetics and blood loss in surgery. (The Effect of Anesthetic Type and on Blood Loss and Hospital Length of Stay in Radical Retropubic Prostatectomy, *Anesthesiology*, Supp., September 1989, abstract.)
- 1979-1981 Laboratory Synthesis and characterization of conducting organo-metallic polymers with the goal of developing room-temperature superconductors. (Thesis: *Aluminosiloxy- and Siloxy-Phthalocyanine Oligomers*, Case Western Reserve University, 1981.)

### **Research Grants Awarded**

- 2011 \$3000, Hartford Anesthesiology Associates, Inc. 3-D Ultrasound System.
- 2010 \$3000, Hartford Anesthesiology Associates, Inc. 3-D Ultrasound System.
- 2010 \$1000, 3-D Ultrasound Visualization System, UConn Engineering Dean Award
- 2004 \$6000, Hartford Anesthesiology Associates, Inc., Electronic Esophageal Stethoscope Study.
- 2008 \$4000 Hartford Hospital, Operating room Positioning/ Decubitus Prevention Device.
- 2003-2005 \$54,000, Hartford Hospital Research Endowment Fund, Surgical Cooling Garment Study.
- 2003-2005 \$100,000, Hartford Hospital Medical Staff Executive Committee, Clinical Research Award. Additional \$100,000 in-kind from Hamilton Sundstrand.
- 2002 \$4000, Hartford Anesthesiology Associates, Inc., Electronic Esophageal Stethoscope Study.

### **Consulting Experience**

- 2022 Bennufit Health, *Medical Advisory Board*.
- 2022 ROM Technologies, Inc., *Advisory*.
- 2014 Fontaine Alissi P.C., *Medical case review and consultation*.
- 2012-2013 Appleton and Appleton, Attorneys at Law, Hartford, CT, *Medical case review and consultation*.
- 2011 Dr. Leonard Eisenfeld, Connecticut Children's Medical Center, *Electronic Stethoscope for Acoustic Identification of Necrotizing Enterocolitis in Premature Infants*.
- 2009-2010 Danaher, Lagnese & Sacco, P.C., *Medical case review and consultation*.
- 2009-2010 Dr. Yunsi Fei, University of Connecticut. *Vulnerability of medical devices to side-channel attacks*.
- 2007 GE Medical, *Confidentiality agreement in effect*.

- 2007 Ahlstrom Corporation, *Non-woven fabric for temperature regulation in a medical/surgical environment. Physical analysis, market considerations, competing and complementary technologies, alternative markets.*
- 2006 Appleton and Appleton, Attorneys at Law, Hartford, CT, *Medical case review and consultation.*
- 2006 Aspect Medical, Inc., *Confidentiality agreement in effect.*
- 2006 Maquet, Inc., *Confidentiality agreement in effect.*
- 2006 Cramer, Inc., *online education RFP submission.*
- 2006-2007 Blue Back Square Ambulatory Surgery Center, West Hartford, CT, *Anesthesia Department start-up planning.*
- 2005 Design By Analysis, Inc., *SBIR submission for a novel medical device.*
- 2004-2005 Z-Medica, Inc., *QuickClot™*
- 2002 Hamilton Sundstrand, Inc., *Regenerable CO2 Systems.*
- 2002 Dr. Linda Gillam, Hartford Hospital, *Tricuspid Valve Regurgitation Study.*
- 1999-2002 Dr. Theodore Anderson, *Plasma Antennas.*
- 1999 Hartford Hospital, Department of Biomedical Engineering. *Electromagnetic interference of cellular telephones in the operating room and critical care areas. Electric field measurements and immunity standards.*
- 1999 Dr. Quing Zhu, University of Connecticut. *Design and application of combined ultrasound, infrared imaging device for breast tumor diagnosis.*
- 1998 Dr. Quing Zhu, University of Connecticut. *Design of flexible, phased array ultrasound transducers for vascular studies.*
- 1998 Dr. Jill Peters, Women's Health Connecticut. *Urinary incontinence therapy device. Patent Pending.*
- 1998 Kendall Corporation. *Endotracheal tube design.*
- 1998 The Martek Group. *Noninvasive cardiac output monitor.*
- 1998 Novamatrix, Inc. *Noninvasive cardiac output monitors.*
- 1997 Department of Public Health, State of Connecticut. *Case reviewer for standard of care issues in anesthesiology.*
- 1995 Abbott, Inc. *Confidentiality agreement in effect.*
- 1993 Ohmeda, Inc. *Usability of anesthesia machine software. Design of cardiac monitors.*
- Nazlo, Inc. and Black Belt Systems, Inc. *Communications software beta-testing and design. Confidentiality agreement in effect.*

## **Publications**

### **BOOKS**

McIsaac, JH, McQueen, KA, Kucik, CA, Eds., *Essentials of Disaster Anesthesia*, Cambridge Academic Press, 2020.

McIsaac, JH, Editor, *Hospital Preparation for Bioterror: A Medical and Biomedical Systems Approach*, Academic Press, October 2006.

### **CHAPTERS**

McIsaac, et al, Triage and Disaster Preparedness, ATLS, 11<sup>th</sup> Edition, in process.

McIsaac, JH, Hagberg, CA, Murray, MJ, **Disaster Preparedness**, in Cullen, Ed., *Clinical*

*Anesthesia*, 9<sup>th</sup> Edition, Wolters Kluwer, 2024.

McIsaac, JH, Mark, ND, Hayanga, HK, **Austere Environment and Disaster Preparedness**, in Hagberg, CA, Ed., *Hagberg and Benumof's Airway Management*, Elsevier Health Sciences, 2022.

McIsaac, Joseph, and Brenda A. Gentz. "**Preparing for Mass Casualty Events.**" *Anesthesiology Clinics* 38.4 (2020): 821-837. PMID: 33127030

McIsaac, JH, **Preparing to Deploy to a Remote Disaster**, in McIsaac, JH, McQueen, KA, Kucik, CA, *Essentials of Disaster Anesthesia*, Cambridge Academic Press, 2020.

McIsaac, JH and Kucik, C, **Chemical and Radiological Exposure in Trauma and Disasters**, in McIsaac, JH, McQueen, KA, Kucik, CA, *Essentials of Disaster Anesthesia*, Cambridge Academic Press, 2020.

Kuza, CM and McIsaac, JH, **Emergency Preparedness and Mass Casualty Considerations for Anesthesiologists**, in McLoughlin, TM, Ed., *Advances in Anesthesia*, Volume 36, 2018.

Mark N, McIsaac, JH.

McIsaac, JH, Kuza, C, **Natural and Man Made Disasters**, Chapter in *Miller's Review of Anesthesia*, 2017.

McIsaac, JH, Murray, MJ, Hagberg, CA. **Disaster Preparedness**. Chapter in Barash, Editor, *Clinical Anesthesia*, 2016.

McIsaac, JH, Editor, **Chapter on Emergency Preparedness in Manual for Anesthesia Airway Management in Austere Environments**. Chapter in Hagberg, C, Editor, *Benumof's Airway*, 2018. *Department Organization and Management*, American Society of Anesthesiologists, web publication, June 17, 2014.

Berkow, L and McIsaac, JH, **Disaster Preparedness, CPR, and Airway Management** in Hagberg, C, Editor, *Benumof's Airway Management*, 3<sup>rd</sup> Edition., Elsevier, 2012.

McIsaac, JH and Kucik, C, **Chemical and Radiological Exposures in Trauma**, in Varon, AJ and Smith, CE, Editors, *Essentials of Trauma Anesthesia*, Cambridge University Press, 2012.

McIsaac, JH, Editor, **Chapter on Emergency Preparedness in Manual for Anesthesia Department Organization and Management**, American Society of Anesthesiologists, web publication, 2009.

McIsaac, JH, **Hospital Preparation for Disasters**, in Rosenblatt, MA, Editor, *ASA Refresher Courses in Anesthesiology*, 2008 Volume 36, Lippincott Williams & Wilkins, September, 2008.

McIsaac, JH, **Decontamination and Personal Protection**, in McIsaac, JH, Editor, *Hospital Preparation for Bioterror: A Medical and Biomedical Systems Approach*, Academic Press, October 2006.

McIsaac, JH, **Operating Room Preparation for Mass Casualties**, in McIsaac, JH, Editor, *Hospital Preparation for Bioterror: A Medical and Biomedical Systems Approach*, Academic Press, October 2006.

McIsaac, JH, **Electromagnetic Interference**, in McIsaac, JH, Editor, *Hospital Preparation for Bioterror: A Medical and Biomedical Systems Approach*, Academic Press, October 2006.

#### PAPERS

McDaniel, Eric, and Joseph McIsaac III. "Combined Trauma and CBRN Exposure: Adding Insult to Injury." *ASA Monitor* 86.3 (2022): 28-29.  
<https://doi.org/10.1097/01.ASM.0000823084.85024.4a>

Khan, SA, McIsaac, JH, et al, **Disaster Mental Health Response and Psychological First Aid**, in *Connecticut Medicine*, Vol. 84, No. 3, March, 2020.

McFadden, P, McIsaac, J, et al, **SALT Triage for Managing Mass Casualties: A Skill for All Physicians**, *Connecticut Medicine*, Vol. 81, Num. 3, Aug. 2019.

McFadden, P and McIsaac, JH, **SALT Triage for Mass Casualties**, *ASA Monitor*. 2018; 82(9):20-21.

Kaslow, O; Kuza, C; McCunn, M, ; Dagal, A; Hagberg, Carin A; McIsaac, J; Mangunta, V; Urman, R; Fox, C; Varon, A; **Trauma Anesthesiology as Part of the Core Anesthesiology Residency Program Training: Expert Opinion of the American Society of Anesthesiologists Committee on Trauma and Emergency Preparedness (ASA COTEP)**, *Anesthesia & Analgesia*: . September 2017-Vol. 125, Issue 3, pp 1060-1065.

Kuza, C, and McIsaac, JH, "**Roles of the Anesthesiologist During Mass Casualty Events**," *ASA Monitor*, April 2017, vol. 81, 14-17.

Ahmed, MI, and McIsaac, JH, "**What Anesthesiologists Should Know About Children in Disasters**," *ASA Monitor*, April 2017, vol. 81, 22-25.

*Murray, MJ, Dagal, A, McIsaac, JH, "Be Prepared," ASA Monitor*. 2016; 80(5):52-54.

McCunn, M, Dutton, RP, Dagal, A, Varon, AJ, Kaslow, O, Kucik, CJ MD, Hagberg, CA, McIsaac, JH, Pittet, JF, Dunbar, PJ, Grissom, T, Vavilala, MS, "**Trauma, Critical Care, and Emergency Care Anesthesiology: A New Paradigm for the 'Acute Care' Anesthesiologist?**", *Anesthesia & Analgesia*: December 2015 - Volume 121 - Issue 6 - p 1668–1673.

Lehn, RA, Gross, JB, McIsaac, JH, Gipson, KE, **Needleless Connectors Substantially Reduce Flow of Crystalloid and Red Blood Cells During Rapid Infusion**, *Anesthesia & Analgesia*: April 2015 - Volume 120 - Issue 4 - p 801–804.



McIsaac, JH, **Emergency Preparedness: Multispecialty Surgical Enhancement Teams**, ASA Newsletter, Vol. 76, No. 7, July 2012.

Dean, WC, Hodgson, E, McIsaac, JH, **Liquid Cooling Garment Adaptation to Enhance Surgical Outcomes**. Presented at the International Conference On Environmental Systems, Society of Automotive Engineers International, (#2003-01-2339), July 2003, Vancouver, BC, Canada.

#### **EDITORIALS**

McIsaac, JH, **“What Connecticut Needs is a Bell Labs for Medical Devices,”** *Hartford Business Journal*, May 24, 2010.

McIsaac, JH, **“Be Afraid of the Dark: Technological Challenges for the Anesthesiologist in the 21st Century,”** Guest Editorial, *Anesthesiology News*, McMahan Publishing Group, 35:3, March, 2009.

#### **BOOK REVIEWS**

McIsaac, JH, **Trauma Anesthesia**, *Journal of the American Medical Association*, 2010;304(16):1841-1843, October 27, 2010.

McIsaac, JH and Martin, TJ, **Yao and Artusio’s Anesthesiology: Problem-Oriented Patient Management**, *Journal of the American Medical Association*, 2009;302(11):1234-1235, September 16, 2009.

McIsaac, JH, **Jihad and American Medicine: Thinking Like a Terrorist to Anticipate Attacks Via Our Health System**, *Journal of the American Medical Association*, 300(6):734-735, August 13, 2008.

McIsaac, JH, **Basics of Blood Management**, *Journal of the American Medical Association*, 298(21):2547-2548, December 5, 2007.

#### **GUIDELINES , FAQs, CHECKLISTS, AND WEBINARS**

McIsaac, JH, et al, **Operating Room Mass Casualty Checklist**, ASA Committee on Trauma and Emergency Preparedness and the Trauma Anesthesiology Society Committee on Mass Casualties, December 7, 2015.

Hagberg, CA, Stackhouse, RA, McIsaac JH, Jacobs, JS, **Ebola, Are You Ready?**, <http://education.asahq.org/ebola>, ASA Ebola Workgroup, December 09, 2014.

McIsaac, JH, Gilmore, C, et al, **Recommendations from the ASA Ebola Workgroup**, <https://www.asahq.org/For-Members/Clinical-Information/Ebola-Information/Ebola-Guidelines-from-COH.aspx>, ASA Ebola Workgroup, October 31, 2014.

McIsaac, JH, et al, **Ebola FAQs**, <https://www.asahq.org/For-Members/Clinical-Information/Ebola-Information/Ebola-FAQs.aspx>, ASA Ebola Workgroup, October 24, 2014.

McIsaac, JH, **Family Preparedness Checklist**, <https://www.asahq.org/For->

[Members/About-ASA/ASA-Committees/Committee-on-Trauma-and-Emergency-Preparedness/Emergency-Preparedness/Family-Checklist.aspx](#), ASA Committee on Trauma and Emergency Preparedness, October, 2014.

#### ABSTRACTS

McIsaac, JH, **Combined Trauma and CBRN Exposure**, presented at the World Association for Disaster and Emergency Medicine Congress, Killarney, Ireland, May 10, 2023. doi:10.1017/S1049023X23003400

McIsaac, JH, **Crisis Communications**, presented at the World Association for Disaster and Emergency Medicine Congress, Killarney, Ireland, May 10, 2023. doi:10.1017/S1049023X23005101

McIsaac, J., Gentz, B., McFadden, P., & Coleman, J. (2019). **Unexpected Lessons from a Mass Casualty Simulation: Strategies for Management of the Minimally Injured Can Increase Efficiency and Decrease Chaos**. Presented at the World Congress for Disaster and Emergency Medicine, Brisbane, Australia, May 7, 2019. *Prehospital and Disaster Medicine*, 34(S1), S173-S174. doi:10.1017/S1049023X19003984

McIsaac, J., Brulle, J., Burg, J., Tarnacki, G., Sullivan, C., & Wassel, R. (2019). **Blockchain Technology for Disaster and Refugee Relief Operations**. Presented at the World Congress for Disaster and Emergency Medicine, Brisbane, Australia, May 8, 2019. *Prehospital and Disaster Medicine*, 34(S1), S106-S106. doi:10.1017/S1049023X1900222X

McIsaac, JH, **“Operating Room Management During Mass Casualties: A New Checklist,”** presented at the World Congress for Disaster and Emergency Medicine, Toronto, Canada, April 26, 2017.

Lehn, RA, Gross, JB, McIsaac, JH, Gipson, KE, **Needless Connectors Substantially Reduce Flow of Crystalloid and Red Blood Cells During Rapid Infusion**, accepted at the International Anesthesia Research Society Annual Meeting and International Science Symposium, Montreal, Canada, May 17-20, 2014.

McIsaac, JH, **The US National Disaster Medical System (NDMS) Multispecialty Enhancement Team (MSET)-- Rapid Augmentation of Surgical Care During Disasters**, in *Prehospital and Disaster Medicine*, Vol. 28, Supplement 1, May 2013. Presented at the 18<sup>th</sup> World Congress on Disaster and Emergency Medicine, Manchester, UK, May 31, 2013.

McIsaac, JH, **The US National Disaster Medical System (NDMS) Multispecialty Enhancement Team (MSET)-- Rapid Augmentation of Surgical Care During Disasters**, presented at the NYSORA World Anesthesia Convention, Bangkok, Thailand, April 25, 2013.

McIsaac, JH, Peterson, DR, **Two Low-Cost Tracking Systems for 3-D Imaging of the**

**Brachial Plexus Using 2-D Ultrasound**, presented at the NYSORA World Anesthesia Convention, Bangkok, Thailand, April 25, 2013.

McIsaac, JH, **Future WMD: Preparing for Emerging Threats**, CBRNe Convergence Conference, (accepted but not presented due to Hurricane Sandy), Norfolk, VA, October 31-November 2, 2012.

Boutros, PJ, Lee, CX, Mathews, SJ, Wilkens, PJ, Peterson, DR, McIsaac, JH, **Novel 3-D Brachial Plexus Reconstruction from 2-D Ultrasound Using XBOX Kinect® Tracking**, presented at the Biomedical Engineering Society Annual Meeting, Atlanta, GA, October 27, 2012.

Amarel, T, Bigdeli, O, Golden, M, McIsaac, J, Munir, K, Yost, J, **A Low-Cost 3D Ultrasound System for Imaging of the Brachial Plexus for Regional Anesthesia**, presented at the Biomedical Engineering Society Annual Meeting, Translational Biomedical Engineering, Hartford, CT, October 15, 2011.

McIsaac, JH, **Advanced Surgical Cooling Garment to Combat Heat Stress in CBW PPE and Hot Surgical Environments**, *Prehosp Disaster Med* 2011;26(Suppl. 1):s130. Presented at the 17<sup>th</sup> World Congress for Disaster and Emergency Medicine, Beijing, China, June 1, 2007.

McIsaac, JH, **Future WMD: Preparing for Emerging Threats**, *Prehosp Disaster Med* 2011;26(Suppl. 1):s114-s115. Presented at the 17<sup>th</sup> World Congress for Disaster and Emergency Medicine, Beijing, China, May 31, 2007

McIsaac, JH, Palladino, J, Sisson, W, Lawlor, B, Ebraheem, M, Powers, M, Zerbini, S, **Low Cost Seizure Simulation Bed for Medical Training**, **Annual Meeting of the Biomedical Engineering Society**, Austin, TX, October 7, 2010.

McIsaac, JH, **HEMP and Cyberwar: Unrecognized Threats to Modern Medical Care**, Abstract, presented at the 10<sup>th</sup> Chemical and Biological Warfare Protection Symposium, Stockholm, Sweden, June 10, 2010.

McIsaac, JH, **Essential Anesthetic Skills During Prolonged Power failure Due to HEMP Attack**, Presented at the NYSORA World Congress of Regional Anesthesia, Dubai, UAE, March 10, 2010.

McIsaac, JH, **Technological Challenges to Medical Practice in the 21<sup>st</sup> Century**, Abstract, *Prehospital and Disaster Medicine*, 2009;24(2):s101. Presented at the World Congress on Disaster and Emergency Medicine, Victoria, BC, Canada, May 12, 2009.

McIsaac, JH, Kiraly, A, Smolka, A, Renouf, R, **Intraoperative Temperature Measurement Error**, *Anesthesiology*, Supp., September, 2006, abstract. Presented at the Annual Meeting of the American Society of Anesthesiologists, Chicago, IL, October 14, 2006.

McIsaac, JH, Kiraly, A, Blum, J, **The Surgical Cooling Garment**, Abstract. Presented at the MEDi2005 Conference and Exhibition, Hartford, CT, October 26, 2005

McIsaac, JH, Blum, J, **The Brain Temperature Tunnel**, Abstract. Presented at the MEDi2005 Conference and Exhibition, Hartford, CT, October 26, 2005.

McIsaac, JH, Bowers, M, The **Electronic Esophageal Stethoscope**, Abstract. Presented at the MEDi2005 Conference and Exhibition, Hartford, CT, October, 26, 2005.

Blum, J, McIsaac, JH, Fernandez, A, Palter M, **The Brain Temperature Tunnel: A Non-invasive Technique for Monitoring Core Temperature**, abstract. Presented at Advances in Medical Technology: Bionanotechnology, The Seventh Annual BEACON Symposium and Technology Fair, Hartford Hospital, Hartford, CT, October 28, 2004.

McIsaac, JH, Blum, J, Hodgson, E, Dean, WC, **Surgical Cooling Garment: Phase III**, abstract. Presented at Advances in Medical Technology: Bionanotechnology, The Seventh Annual BEACON Symposium and Technology Fair, Hartford Hospital, Hartford, CT, October 28, 2004.

McIsaac, JH, Bowers, M, Chen, S, Kaputa, D, **The Electronic Esophageal Stethoscope**. Presented at Advances in Medical Technology: Bionanotechnology, The Seventh Annual BEACON Symposium and Technology Fair, Hartford Hospital, Hartford, CT, October 28, 2004.

Blum, J, McIsaac, JH, **The Brain Temperature Tunnel: A Non-invasive Technique for Monitoring Core Temperature**, abstract. Presented at the 13th World Congress of Anesthesiologists, Paris, France, April 22, 2004.

Burns-Lambert, R, McIsaac, JH, **Fluid Flow Reduction During Rapid Transfusion Using The CLAVE<sup>TM</sup> Connector**, abstract. Presented at Advances in Medical Technology: Neural Engineering, The Sixth Annual BEACON Symposium and Technology Fair, Hartford Hospital, Hartford, CT, October 22, 2003.

Burns-Lambert, R, McIsaac, JH, **Fluid Flow Reduction During Rapid Transfusion Using The CLAVE<sup>TM</sup> Connector**, *Anesthesiology*, Supp., September, 2003, abstract. Presented at the Annual Meeting of the American Society of Anesthesiologists, San Francisco, CA, October 14, 2003.

Hook, K, Nelson, J, McIsaac, JH, **Virtual Instruments for Anesthesia Monitoring**, abstract, presented at the BEACON Technology Fair, Hartford, CT, October 12, 2001.

Nugent, J, Hook, K, McIsaac, JH, **Enhanced Electronic Esophageal Stethoscope**, abstract, presented at the BEACON Technology Fair, Hartford, CT, October 12, 2001.

Gross, J, McIsaac, JH, **Electromagnetic Compatibility of Cellular Telephones and Anesthesia Equipment**, Panel on Technology, Presented at the American Society of Anesthesiologists Annual Meeting, Dallas, TX, October 11, 1999.

McIsaac, JH, **Electromagnetic Fields in the Operating Room**, *Anesthesiology*, Supp., September, 1998, abstract. Presented at the American Society of Anesthesiologists Annual Meeting, Orlando, FL, October 21, 1998.

McIsaac, JH, Rouman, JC, Graydon, RJ, **The Effect of Anesthetic Type on Blood Loss and Hospital Length of Stay in Radical Retropubic Prostatectomy**, *Anesthesiology*, Supp., September, 1989, abstract. Presented at the Annual Meeting of the American Society of Anesthesiologists, New Orleans, LA, October 18, 1989.

**Lectures, Presentations, Exercises, and Scientific Exhibits by Invitation**

McIsaac, JH, Peterson, MD, Dutton, RP, **Crisis Leadership and Communication in Disasters**, presented at the Annual Meeting of the American Society of Anesthesiologists, San Francisco, CA, October, 14, 2023.

McIsaac, JH, **Crisis Communications: An Effective Solution for Physician Leaders**, presented at the Annual Meeting of the American Association for Physician Leadership, Chicago, IL, June 10, 2023.

McIsaac, JH and Kucik, CJ, **Management of a European Nuclear Detonation**, presented at the World Association for Disaster and Emergency Medicine Congress, Killarney, Ireland, May 10, 2023.

McIsaac, JH, **Management of CBRN Casualties**, Presented at the Arizona State Society of Anesthesiologists Annual Meeting, Chandler, AZ, January 21, 2023.

McIsaac, JH, **Management of Mass Casualties**, Presented at the Arizona State Society of Anesthesiologists Annual Meeting, Chandler, AZ, January 20, 2023.

McIsaac, JH, **Massive Transfusion, Resident Education Lecture**, University of Connecticut School of Medicine, Hartford, CT, December 19, 2022.

McIsaac, JH, **Combined Trauma and CBRN Exposure**, presented at the Annual Meeting of the American Society of Anesthesiologists, October 25, 2022, New Orleans, LA.

McIsaac, JH, **Moderator, Panel on Leadership and Crisis Communications**, at the Annual Meeting of the American Society of Anesthesiologists, October 23, 2022, New Orleans, LA.

McIsaac, JH, **Crisis Communications, Panel on Leadership and Crisis Communications**, at the Annual Meeting of the American Society of Anesthesiologists, October 23, 2022, New Orleans, LA.

McIsaac, JH, **Combined Trauma and Chemical or Radiation Exposure, Grand Rounds**, Department of Anesthesiology, Hartford Hospital, Hartford, CT, August 18, 2022

McIsaac, JH, **Convenor and Faculty, Workshop on Perioperative Cardiac Ultrasound, Integrated Anesthesia Associates, LLC, Center for Education, Simulation, and Innovation**, Hartford Hospital, Hartford, CT, May 21, 2022.

McIsaac, JH and Palaniappan, D, **Point-Counterpoint Presentation on POCUS, Integrated**

Anesthesia Associates, LLC, Center for Education, Simulation, and Innovation, Hartford Hospital, Hartford, CT, May 21, 2022.

McIsaac, JH, Management of Mass Casualty Events, Grand Rounds, University of Arkansas Department of Anesthesiology, Little Rock, AR, June 21, 2022.

McIsaac, JH, Workshop, Mass Casualty Incidents: Pandemic Today, Tomorrow: How to Prepare for the Unexpected, Presented at the Annual Meeting of the American Society of Anesthesiologists, October 11, 2021, San Diego, CA.

McIsaac, JH, **Update on Triage After Mass Casualties** in Trauma and Critical Care Medicine: Update on Pathophysiology and Treatment of Severe Trauma, 17<sup>th</sup> World Congress of Anesthesiologists, Prague, Czech Republic, September 4, 2021.

McIsaac, JH, **Update on Trauma Anesthesia 2021: Mass Casualties or the Single Trauma Patient**, Grand Rounds, Department of Anesthesiology, Hartford Hospital, Hartford, CT, August 19, 2021.

McIsaac, JH, **Disaster Preparedness and Crisis Communications**, presented at the Healthcare Finance – Value Based Care & Payors Program, American Society for Physician Leadership Vanguard Meeting, June 11, 2021.

McIsaac, JH, **Disaster Preparedness for Clinical Engineers**, presented at the Annual Meeting of the New England Society of Clinical Engineers, Sturbridge, MA, May 18, 2021.

McIsaac, JH, **Update on Stop the Bleed**, War and Disaster Medicine Conference, Tartu, Estonia, December 5, 2019.

McIsaac, JH, **Blockchain, Artificial Intelligence, and Big Data: How Technology Can Impact Disaster Management**, presented at the War and Disaster Medicine Conference, Tartu, Estonia, December 6, 2019.

McIsaac, JH, Moderator, **Mass Casualties and the Anesthesiologist: It's Not Just About the OR Anymore**, Presented at the Annual Meeting of the American Society of Anesthesiologists, Orlando, FL, October 21, 2019.

McIsaac, JH, **“Counter-Terror Leadership”** in: Mass Casualties and the Anesthesiologist: It's Not Just About the OR Anymore, Presented at the Annual Meeting of the American Society of Anesthesiologists, Orlando, FL, October 21, 2019.

Tripac, A and McIsaac, JH, **Anesthesia For Non-cardiac Surgery In A Cardiac Transplant Recipient**, Presented at the Annual Meeting of the American Society of Anesthesiologists, Orlando, FL, October 21, 2019.

McIsaac, JH, Instructor, **Cadaveric Workshop on Advanced Skills that Every Physician Anesthesiologist Should Know: Workshop 1**, Orlando, FL, October 19, 2019.

McIsaac, JH, Instructor, **Cadaveric Workshop on Advanced Skills that Every Physician Anesthesiologist Should Know:** Workshop 2, Orlando, FL, October 19, 2019.

McIsaac, JH, **Trauma Update 2019**, Grand Rounds, Department of Anesthesiology, Hartford Hospital, Hartford, CT, September 19, 2019.

McIsaac, JH, **“Preparing to Deploy,”** Austere Medical Teams Special Interest Section Meeting, World Congress on Disaster and Emergency Medicine, Brisbane, Australia, May 8, 2019.

McIsaac, JH, Gentz, BA, **Critical Strategies for Managing Mass Casualties: A Hands-On Mass Casualty Workshop, Presented at the Annual Meeting of the American Society of Anesthesiologists**, San Francisco, CA, October, 14, 2018.

McIsaac, JH, **“Trauma Update 2017: Mass Casualty Shootings and Bombings,”** Grand Rounds, Department of Anesthesiology, Hartford Hospital, Hartford, CT, November 16, 2017.

McIsaac, JH, Instructor, **“Workshop: Life-Saving Skills that Every Anesthesiologist Should Know,”** American Society of Anesthesiologists Annual Meeting, Boston, MA, October 21, 2017.

McIsaac JH, Presenter and Moderator, **“Anesthesia for Mass Shootings.”** Panel on Mass Casualties, at the American Society of Anesthesiologists Annual Meeting, Chicago, IL, October 2016

McIsaac, JH, **“Medical Resilience in Developing Countries,”** presented at The Challenge and Opportunities of Private Sector Climate Resilience Conference, Multilateral Investment Fund/Inter-American Development Bank, Cartagena, Colombia, May 26, 2016.

McIsaac, JH, **“Disaster Medical Resilience in the United States,”** presented at the Connecticut Psychiatry Society Conference on Disaster Psychiatry, Yale School of Medicine, New Haven, CT, April 30, 2016.

McIsaac, JH, Moderator, Panel: **“Disaster Preparedness: The Central Role of the Anesthesiologist,”** American Society of Anesthesiologists Annual Meeting, San Diego, CA, October 25, 2015.

McIsaac, JH, **Management of Mass Casualties in the Operating Room**, Panel: **“Disaster Preparedness: The Central Role of the Anesthesiologist,”** American Society of Anesthesiologists Annual Meeting, San Diego, CA, October 25, 2015.

McIsaac, JH, **Trauma Update, 2015: The Surgical and Anesthetic Response to Mass Shootings**, Grand Rounds, Department of Anesthesiology, Hartford Hospital, Hartford, CT, July 30, 2015.

McIsaac, JH, Moderator: **Panel on Combined Trauma and CBRN Exposure**, Annual

Meeting of the International Anesthesia Research Society, Honolulu, HI, March 23, 2015.

McIsaac, JH, **Decontamination of the Trauma Patient** in Panel on Combined Trauma and CBRN Exposure, Annual Meeting of the International Anesthesia Research Society, Honolulu, HI, March 23, 2015.

McIsaac, JH, **Management of the Infected Trauma Patient**, in Panel on Combined Trauma and CBRN Exposure, Annual Meeting of the International Anesthesia Research Society, Honolulu, HI, March 23, 2015.

**“Advanced Arterial Mechanics,”** Residency in Anesthesiology, Department of Anesthesiology, University of Connecticut School of Medicine, Hartford, CT, January 19, 2015.

**“Disaster Preparedness in the United States,”** War and Disaster Medicine Conference, Estonian National Defence Forces, Tartu Estonia, December 5, 2014.

Moderator, War and Disaster Medicine Conference, Estonian National Defence Forces, Tartu Estonia, December 5, 2014.

Panel Member, **“High-Performing Organizations: Leading Through Innovation,”** Rensselaer Alumni Association Hartford Chapter Leadership Speaker Series, Hartford, CT, October 24, 2014.

**“Trauma Update 2014,”** Grand Rounds, Department of Anesthesiology, Hartford Hospital, Hartford, CT, July 24, 2014.

**“Austere Surgery Course,”** Speaker, Instructor, and Exercise Designer, Hartford Hospital Center for Education, Simulation, and Innovation and the New England Disaster Training Center, Hartford and Windsor Locks, CT, April 11-12, 2014.

Panel Member, **“Transformational Leadership: Leading Through Innovation,”** Rensselaer Alumni Association Hartford Chapter Leadership Speaker Series, Hartford, CT, October 24, 2013.

**“Disaster Preparedness: Yourself, Your Family, Your Department,”** Refresher Course Lecture, American Society of Anesthesiologists Annual Meeting, October 14, 2013.

**“Anesthesia for Mediastinal Masses,”** Residency in Anesthesiology, Department of Anesthesiology, University of Connecticut School of Medicine, Hartford, CT, September 16, 2013.

**“Trauma Update 2013: Bombs, Burns, and More,”** Grand Rounds, Department of Anesthesiology, Hartford Hospital, Hartford, CT, June 27, 2013.

**“Trauma and Chemical Exposure,”** Panel on Trauma, 66<sup>th</sup> Annual Post Graduate Assembly, New York, New York, December 14, 2012.



**“Chance Favors the Prepared Mind: Leading Global Strategies to Deepen and Expand Markets,”** Keynote Speaker, Rensselaer Leadership Speaker Series 2012, Rensselaer Polytechnic Institute Alumni Association, RPI Hartford, Hartford, CT, October 18, 2012.

Moderator, **Panel on Anesthesia for Austere Environments**, American Society of Anesthesiologists Annual Meeting, October 13, 2012.

**“Equipment for Austere Environments,”** Panel on Anesthesia for Austere Environments, American Society of Anesthesiologists Annual Meeting, October 13, 2012.

**“Disaster Volunteering with the US Government,”** Panel on Anesthesia for Austere Environments, American Society of Anesthesiologists Annual Meeting, October 13, 2012.

**“Trauma Update 2012: ADLS, Massive Transfusion, and Pediatrics,”** Grand Rounds, Department of Anesthesiology, Hartford Hospital, Hartford, CT, June 1, 2012.

Moderator, **Workshop on Trauma Care**, 15<sup>th</sup> World Congress of Anesthesiologists, Buenos Aires, Argentina, March 26, 2012.

**“Advanced Arterial Dynamics,”** Residency in Anesthesiology, Department of Anesthesiology, University of Connecticut School of Medicine, Hartford, CT, February 27, 2012.

**“Combined Trauma and Radiation Exposure,”** Trauma Update, 65<sup>th</sup> Annual Post Graduate Assembly, New York, New York, December 14, 2011.

Moderator, **Panel on Anesthesia for Austere Environments**, American Society of Anesthesiologists Annual Meeting, Chicago, IL, October 16, 2011.

**“Equipment for Austere Environments,”** Panel on Anesthesia for Austere Environments, American Society of Anesthesiologists Annual Meeting, Chicago, IL, October 16, 2011.

**“Medico-legal considerations,”** Panel on Anesthesia for Austere Environments, American Society of Anesthesiologists Annual Meeting, Chicago, IL, October 16, 2011.

**“Trauma Update 2011: National and International Public Health Initiatives,”** Grand Rounds, Department of Anesthesiology, Hartford Hospital, Hartford, CT, June 30, 2011.

**“Combining Medicine and Biomedical Engineering,”** Career Night, Biomedical Engineering Program, School of Engineering, University of Connecticut, Storrs, CT, February 24, 2011.

**“Equipment for Austere Environments,”** Grand Rounds, Department of Perioperative Nursing, Connecticut Children’s Medical Center, Hartford, CT, January 13, 2011.

**“Hereditary Angioedema and Tracheal Stenosis,”** Case Discussion, Residency in Anesthesiology, Department of Anesthesiology, University of Connecticut School of Medicine, Farmington, CT, October 26, 2010.

**“Equipment for Austere Environments,”** Panel on Anesthesia for Austere Environments, American Society of Anesthesiologists Annual Meeting, San Diego, CA, October 16, 2010.

**“Business Opportunities,”** Breakout Session Leader, Hartford Anesthesiology Associates, Inc. Strategic Business Planning Retreat, University of Hartford, West Hartford, CT, September 25, 2010.

**“Technological Threats to Medical Care,”** Grand Rounds, Departments of Anesthesiology and Perioperative Nursing, Connecticut Children’s Medical Center, Hartford, CT, August 5, 2010.

**“Trauma Update 2010: Massive Transfusion Protocol and Emergency Ultrasound Examination,”** Grand Rounds, Department of Anesthesiology Hartford Hospital, Hartford, CT, June 24, 2010

**“CBRN Seminar,”** Residency in Anesthesiology  
Department of Anesthesiology  
University of Connecticut School of Medicine  
Farmington, CT, June 14, 2010.

**“HEMP and Cyber Warfare: Unrecognized Threats to Modern Medical Care,”** 10<sup>th</sup> Chemical and Biological Warfare Protection Symposium, Stockholm, Sweden, June 10, 2010.

Archambault, MB, McIsaac JH, Kallen, J, **“SVC Syndrome and Pericardial Tamponade Secondary to a Rapidly Expanding Mediastinal Mass in a Patient with Scleroderma,”** Case Presentation, at the 84<sup>th</sup> Annual Meeting of the International Anesthesia Research Society, Honolulu, Hawaii, March 22, 2010.

**"HEMP and Cyber War: What You Don’t Know CAN Hurt You,"** 2010 International Disaster Management Conference, Orlando, FL, February 19, 2010.

**"Technological Threats to Medical Practice During Disasters,"** Refresher Course Lecture, presented at the American Society of Anesthesiologists Annual Meeting, New Orleans, LA, October 20, 2009.

Moderator, **Panel on Disaster Preparedness,** American Society of Anesthesiologists Annual Meeting, New Orleans, LA, October 19, 2009.

**"Departmental Preparedness,"** (presented for Paul Barach, MD, MPH) Panel on Disaster Preparedness, American Society of Anesthesiologists Annual Meeting, New Orleans, LA, October 19, 2009.

**"Hospital Preparation for Anything: Are We Ready,"** Connecticut Council of the

Association of Operating Room Nurses Annual Meeting, Farmington, CT, October 14, 2009.

**“Explosives and Bombings: Injury Patterns and Care,”** Grand Rounds, Departments of Anesthesiology, Hartford Hospital and Connecticut Children’s Medical Center, Hartford, CT, August 20, 2009.

**“HEMP, Cyberwar, and Prolonged Power Failure,”** International Association of Healthcare Security and Safety, New Britain, CT, June 5, 2009.

**“Hospital Preparation for Bioterrorism, Pandemics, and other Disasters,”** International Association of Healthcare Security and Safety, New Britain, CT, June 5, 2009.

**“Technological Challenges for Hospitals During NBC Disasters (HEMP and Cyberwarfare),”** 2009 International Disaster Management Conference, Orlando, FL, February 21, 2009.

**“Hospital Preparedness for Bioterror,”** 2009 International Disaster Management Conference, Orlando, FL, February 21, 2009.

**“Management of Bleeding After Cardiac Surgery”**  
Residency in Anesthesiology, Department of Anesthesiology  
University of Connecticut School of Medicine  
Hartford, CT, January 19, 2009

**“Vascular Mechanics: Advanced Models”**  
Residency in Anesthesiology, Department of Anesthesiology  
University of Connecticut School of Medicine  
Hartford, CT, January 19, 2009

Exercise Evaluator, **“Hartford Hospital Emergency Department: Mass Casualty Incident: A Tabletop Disaster Drill”**  
Grand Rounds, Department of Emergency Medicine  
Hartford, CT, January 15, 2009

**“Hospital Preparation for Bioterror and Disasters”**  
Presented at the Annual Meeting of the New England Section of the  
American Association of Operating Room Nurses  
January 13, 2009

Exercise Controller, **“Hospital Incident Command Center Practical Exercise”**  
Hartford Hospital, Hartford, CT, November 7, 2008

**“The Home Front: Technological Challenges for the Anesthesiologist,”**  
Presented at the American Society of Anesthesiologists Annual Meeting, Orlando, FL,  
October 19, 2008.

**“Medical Device Research and Development in Anesthesiology at Hartford**

**Hospital.** Presented at Medi2008, Medical Technology Conference and Exhibition, The Connecticut Convention Center, Hartford, CT, September 9-10, 2008

**“Hospital Preparation for Nuclear, Chemical, and Biological Disasters”**

Grand Rounds, Department of Anesthesiology  
University of Texas at Houston  
Houston, Texas, February 28, 2008

**“Electromagnetic Pulse, Communications, and Power Considerations for Medical Personnel”**

Visiting Professor Resident Lecture  
University of Texas at Houston  
Houston, Texas, February 28, 2008

**“Teaching NBC Casualty Management in Estonia—2007”**

Multidisciplinary Trauma Committee  
Hartford Hospital, Hartford, CT, February 13, 2008

**“Teaching NBC Casualty Management in Estonia—2007”**

Biomedical Engineering Alliance and Consortium (BEACON)  
Hartford, CT, January 23, 2008

**“Teaching NBC Casualty Management in Estonia—2007”**

Grand Rounds, Department of Anesthesiology  
Hartford Hospital, Hartford, CT, January 17, 2008

**“Hospital Preparation for Nuclear, Chemical, and Biological Disasters”**

Annual National Military Medical Meeting  
Estonian National Defence College  
Tartu, Estonia, December 6, 2007

**Conference Organizer for the Seminar on Nuclear, Biological, Chemical Defense, and Simulation**

Estonian National Defence College  
Tartu, Estonia, December 3-5, 2007

Presentations:

**“Decontamination and PPE”**

**“Electromagnetic Pulse, Communications, and Power Considerations for Medical Personnel”**

**“Hospital Preparation for Nuclear, Chemical, and Biological Disasters”**

**“Medical Management of Nerve Agent Casualties”**

**“Medical Management of Vesicant Casualties”**

Simulation stations:

**“Advanced Airway Instrumentation”**

**“Emergency Management of the Traumatized Pregnant Patient with Radiation Exposure”**

**“Emergency Management of a Multi-trauma Patient with Nerve Agent Exposure”**

**“Hospital Preparation for Disasters,”**

Department of Engineering  
Trinity College, Hartford, CT  
November 15, 2007

**“Hospital Preparation for Disasters,”**

American Society of Anesthesiologists Annual Meeting, San Francisco, CA, October 16, 2007.

**“Radiation Hazards,”** Workshop on All Hazards Considerations for Personal Protection and Airway Management, American Society of Anesthesiologists Annual Meeting, San Francisco, CA, October 15, 2007.

**“Trauma Update 2007: After Action Report for the ‘June Surprise’ Exercise at Hartford Hospital”**

Grand Rounds, Department of Anesthesiology  
Hartford Hospital, Hartford, CT, June 28, 2007.

**“Anesthetic Toxicity and the Developing Brain”**

Resident Seminar  
Department of Anesthesiology  
University of Connecticut School of Medicine  
Farmington, CT, June 19, 2007

**“Coagulation Issues and Cardiac Surgery”**

Resident Seminar  
Departments of Anesthesiology  
University of Connecticut School of Medicine and Hartford Hospital  
Hartford, CT, June 4, 2007

**“Post Cardiopulmonary Bypass Coagulopathy,”**

Resident Lecture, Department of Anesthesiology  
University of Connecticut School of Medicine  
Hartford, CT, May 4, 2007

**“Hospital Preparation for Disasters”**

Grand Rounds, Department of Anesthesiology  
University of Connecticut School of Medicine  
Farmington, CT, April 4, 2007.

**“Massive Left Atrial Myxoma with Outflow Obstruction,”** Case Presentation, Grand Rounds, Department of Anesthesiology  
Hartford Hospital, Hartford, CT, March 29, 2007.

**“Hospital Preparation for Bioterror: A Medical and Biomedical Systems Approach (Biomedical Engineering),”** 2007 Seminar Series #2, Biomedical Engineering Alliance and Consortium, Hartford, CT, March 8, 2007.

**“Powered Air Purifying Respirator Training for Hazardous Environments,”**  
Simulator Center, Hartford Hospital, January 18, 2007.

**“Hospital Preparation for Disasters,”** Resident Didactic Night,  
Departments of Anesthesiology, Hartford Hospital and University of Connecticut School  
of Medicine, December 19, 2006.

**“ASD in a Patient for Total Hip Arthroplasty,”** Cardiac Subspecialty Update-2006,  
Grand Rounds, Department of Anesthesiology, Hartford Hospital, November 30, 2006

**“Bioterror and Clinical Engineers,”** New England Society of Clinical Engineers,  
Farmington, CT, November 15, 2006.

**“Hospital Systems Preparation,”** *Management of Patients Exposed to Weapons of Mass  
Destruction Workshop*, American Society of Anesthesiologists Annual Meeting, Chicago,  
IL, October 15, 2006.

**“Electromagnetic Interference,”** Biomedical Engineering Seminar, University of  
Connecticut, Storrs, CT, September 21, 2006.

**"Medical Management of Nuclear, Biological, and Chemical Casualty Resident  
Seminar"**

Departments of Anesthesiology  
Hartford Hospital and University of Connecticut School of Medicine, September 21,  
2006.

**“The Surgical Cooling Garment.”** Presented at the MEDi2005 Medical Technology  
Conference and Exhibition, The Connecticut Convention Center, Hartford, CT, October  
25, 2005.

**“The Surgical Cooling Garment.”** Presented at the MEDi2005 Medical Technology  
Conference and Exhibition, The Connecticut Convention Center, Hartford, CT, October  
26, 2005.

**"Medical Management of Nuclear, Biological, and Chemical Casualties: Resident  
Seminar with Hands-on Patient Simulation Using PAPRs,"** Department of  
Anesthesiology, Hartford Hospital, September 15, 2005

**“Overview of Medical Management of Nuclear, Biological, and Chemical  
Casualties,”**

Grand Rounds, Department of Anesthesiology, Hartford Hospital, September 15, 2005

**“Surgical Cooling Garment,”** Hartford Metro Alliance, Hartford, CT, July, 12, 2005.

**“Introduction to Bioterrorism,”** Biomedical Engineering Seminar, University of  
Connecticut, Storrs, CT, February 8, 2005.

**“Hospital Systems Preparation,”** Management of Patients Exposed to *Weapons of  
Mass Destruction Workshop*, American Society of Anesthesiologists Annual Meeting,

Las Vegas, NV, October 26, 2004.

**"Medical Management of Nuclear, Biological, and Chemical Casualty Resident Seminar with Hands-on Simulation,"** Departments of Anesthesiology, Hartford Hospital and University of Connecticut School of Medicine, September 23, 2004

**"How to Get in to Medical School,"** Biomedical Engineering Seminar  
University of Connecticut School of Engineering, Storrs, CT, September 21, 2004

**"Update in Anesthesia for Urological Surgery"** and **"Engineering Control Theory in Anesthesia Practice,"** Grand Rounds, Department of Anesthesiology, Hartford Hospital, Hartford, CT, July 29, 2004

Trauma Update: **"Hospital Preparation for WMD Events,"** Grand Rounds, Department of Anesthesiology, Hartford Hospital, Hartford, CT, February 26, 2004

**"Surgical Cooling Garment Study- Phase III,"** Grand Rounds, Department of Perioperative Nursing, Hartford Hospital, December 11, 2003

**"The Surgical Cooling Garment,"** Advances in Medical Technology: Neural Engineering, The Sixth Annual BEACON Symposium and Technology Fair, Hartford Hospital, Hartford, CT, October 22, 2003.

**"Preparation for WMD Events,"** Weapons of Mass Destruction Workshop, American Society of Anesthesiologists Annual Meeting, San Francisco, CA, October, 15, 2003

**"Management of Chemical and Biological Casualties,"** Grand Rounds, Department of Perioperative Nursing, Connecticut Children's Medical Center, May 29, 2003

**"Medical Management of Radiological Casualties,"** Grand Rounds, Department of Anesthesiology, Hartford Hospital, May 7, 2003

**"Medical Management of Nuclear, Biological, and Chemical Casualty Resident Seminar"**

Departments of Anesthesiology  
Hartford Hospital and University of Connecticut School of Medicine, April 17, 2003

**"Management of Radiological Casualties,"** Grand Rounds, Departments of Anesthesiology and Peri-operative Nursing, University of Connecticut School of Medicine, April 16, 2003

**"Management of Chemical and Biological Casualties,"** Grand Rounds, Department of Orthopedic Surgery, Hartford Hospital, March 13, 2003

**"Management of Chemical and Biological Casualties,"** Grand Rounds, Department of Peri-operative Nursing, Hartford Hospital, January 9, 2003

**"Surgical Cooling Garment,"** Cardiovascular Technologies: Medical Devices and Tissue Engineering. BEACON Symposium and Technology Fair, Hartford, CT, October, 31, 2002

**“Palm OS Compatible Preoperative Record,”** Abdul-Rahman, K., McIsaac, JH, Waberski, W. American Society of Anesthesiologists Annual Meeting, Orlando, FL , October 13-15, 2002

**"Surgical Cooling Garment,"** Connecticut Innovations Technology Symposium Southington, CT, October 1, 2002

**"Perioperative Care of the Trauma Patient,"** Multidisciplinary Conference, Hartford Hospital, May, 02, 2002

**"Future Anesthesia Technology,"** Clinical Engineering Program, Biomedical Engineering University of Connecticut Graduate School, February 11, 2002

**"Management of Chemical and Biological Casualties,"** Grand Rounds, Operating Room Staff, Department of Nursing, John Dempsey Hospital, University of Connecticut Health Center, January 9, 2002

**"Management of Chemical and Biological Casualties,"** Grand Rounds, Department of Urology, University of Connecticut School of Medicine, December 20, 2001

**"Management of Chemical and Biological Casualties,"** Grand Rounds, Department of Anesthesiology, University of Connecticut School of Medicine, November 7, 2001

**"Management of Chemical and Biological Casualties,"** Grand Rounds, Department of Anesthesiology, Hartford Hospital, October 25, 2001

**“Introducing Mountain Laurel Biomedical, LLC: Presentation of Research Areas of Interest,”** BEACON Technology Fair, GE Medical Systems, Wallingford, CT, February 16, 2001

**"Bispectral Analysis: Functional Intra-operative Neurological Monitoring,"** Department of Electrical Engineering, University of Connecticut Graduate School, October 10, 1999

**"Anesthesia for Urology,"** Grand Rounds, Department of Urology, University of Connecticut School of Medicine, November 20, 1997

### **Lectures (PRIOR TO 1997)**

Anesthesia for Mediastinal Masses

Bispectral Analysis: Functional Intra-operative Neurological Monitoring

Anesthesia for Radical Retropubic Prostatectomy

The Vascular Effects of General Anesthetics

Advanced Hemodynamics: A New Model of Vascular Mechanics

Diagnosis and Treatment of Post Cardiopulmonary Coagulopathy

Coagulation Issues in Cardiac Surgery

The Physics of Transesophageal Echocardiography

Color Doppler Transesophageal Echocardiography



Heparin Bonded Extracorporeal Circuits for Cardiopulmonary Bypass  
 Anesthesia for Burns  
 Medical Operations in Cold Weather  
 Medical Operations in a Desert Environment  
 Biological Warfare Threat Assessment  
 Chemical Warfare Threat Assessment  
 Medical Threat: Task Force DIRIGO (Guatemala)

### **Professional and Technical Societies**

Alliance of Advanced Biomedical Engineering  
**Fellow**, American Society of Anesthesiologists  
 Committee on Trauma and Emergency Preparedness (**Preparedness Task Force Chair**)  
 Trauma Anesthesiology Society, **Board of Directors (Founding Director); Chair, Mass Casualty Committee**  
 International Anesthesia Research Society  
 Connecticut State Society of Anesthesiologists  
 American Medical Association  
 Connecticut State Medical Society, **Disaster Committee Chair**  
 Hartford County Medical Association  
 Institute of Electronic and Electronics Engineers (IEEE), **Senior Member**  
 IEEE Society of Engineering in Medicine and Biology  
 IEEE Electromagnetic Compatibility Society  
 IEEE Antennas and Propagation Society  
 American Society of Mechanical Engineers (ASME)  
 ASME Bioengineering Division  
 Biomedical Engineering Society (BMES)  
 Bioinstrumentation SIG  
 Biomedical Engineering Alliance and Consortium (BEACON)  
 Amateur Radio Relay League (ARRL)  
 ASTM, International  
 E54, Committee on Homeland Security (Subcommittees on Preparedness, Decontamination, and Personal Protection)  
 F12, Committee on Security Systems and Equipment  
 Disaster Preparedness and Emergency Response Association  
 World Association for Disaster and Emergency Medicine  
 CBRN SIG (**Co-Chair, 2019**)  
 Austere Surgical Teams SIG (**Co-Chair, 2019**)  
 American Association for Physician Leadership, **Vanguard Member**  
**National Association of Corporate Directors, Director Certified (2023-2025)**

### **Directorships**

**Director, Governance Committee Chair** 2021-2025  
**World Association for Disaster and Emergency Medicine**  
 3330 University Ave

Madison, WI 53705

**Director, Quality Chair** 2018-2022

**IAA, LLC**

Integrated Anesthesia Associates, LLC

99 East River Drive, 5th Floor

East Hartford, CT 06108

**Director, Corporate Secretary, Quality Chair** 2018-2020

**IAA, LLC**

Integrated Anesthesia Associates, LLC

99 East River Drive, 5th Floor

East Hartford, CT 06108

**Vice President, Board of Directors** 2016-2017.

Hartford Division

Integrated Anesthesia Associates, LLC

99 East River Drive, 5th Floor

East Hartford, CT 06108

**Vice President** 2012-2014

Board of Directors

2005-2015

Hartford Anesthesiology Associates, Inc.

111 Founders Plaza, Suite 300

East Hartford, CT 06108

**Board of Directors** 2005-2014

Hartford Anesthesiology Associates Foundation

111 Founders Plaza, Suite 300

East Hartford, CT 06108

**Board of Directors and Founding Director** 2023-2026; 2013-2021

Trauma Anesthesiology Society

Treasurer and Founding Member

2012-2013

**Board of Directors** 2008-2010

The BEACON Foundation

1 Congress Street Ste 201

Hartford, CT 06114

**Board of Directors**

Beach Park Point Association, Inc.

Clinton, CT 06413

2002-2005

### **Business Ventures**

**Founder, Managing Member**

2023

McIsaac Consulting, LLC

12800 SW Barelli CT

Port St. Lucie, FL 34987

**Founder, CEO, and Director of Research and Development**

Mountain Laurel Biomedical, LLC 1998-2013  
52 Northington Drive  
Avon, CT 06001

**Co-Founder and Managing Member**

Mountain Laurel Communications, LLC 2001-2002  
One Congress Street, Suite 206A  
Hartford, CT 06114

**Community Service**

Connecticut Amateur Radio Emergency Service 1992-2023  
American Heart Association Basic Life Support Instructor 2001-2006  
Camp Physician, Beach Park Point Association Summer  
Day Camp, Clinton, CT. 2001-2005  
Camden County, New Jersey Amateur Radio Emergency  
Service 1990-1991  
Radio Amateur Civil Emergency Service (Federal) 1990-1991  
Advisory Committee, Red and Black Gala, 2008  
Hartford Hospital

**Academic Appointments**

**Clinical Professor of Anesthesiology**

University of Connecticut School of Medicine\*\*  
Farmington, CT

**Appointment**

09-01-2019

**Associate Clinical Professor of Anesthesiology**

Frank H. Netter, MD School of Medicine  
Quinnipiac University  
North Haven, CT

2016

**Faculty**

Hartford Anesthesiology Nurse Anesthesia School\*\*  
Hartford, CT

10-2013

**Associate Clinical Professor of Anesthesiology**

University of Connecticut School of Medicine\*\*  
Farmington, CT

07-01-2008

**Associate Adjunct Professor of Biomedical Engineering**

University of Connecticut Graduate School\*\*  
Storrs, CT  
Biomedical Engineering

02-01-1998

**Assistant Clinical Professor of Anesthesiology**

University of Connecticut School of Medicine

08-01-1997

Farmington, CT

**Assistant Clinical Professor of Anesthesiology**

University of Pennsylvania School of Medicine  
Philadelphia, PA

04-27-1990

**Lecturer in Anesthesiology**

University of Pennsylvania School of Medicine  
Philadelphia, PA

12-01-1989

**Hospital Appointments**

**Center for Advanced Reproductive Surgery**

Farmington, CT  
Staff Anesthesiologist

2015

Chief of Trauma Anesthesia  
Chief of Urological Anesthesia  
Senior Staff

**Hartford Hospital\***

Hartford, CT

10-07-1991

Chief of Urologic Anesthesia

**John Dempsey Hospital\***

University of Connecticut Health Center  
Farmington, CT

10-21-1997

**Connecticut Children's Medical Center\***

Hartford, CT  
Staff Anesthesiologist

04-04-1996

**The Institute of Living**

Hartford, CT  
Staff Anesthesiologist

09-01-1994

**Newington Children's Hospital**

Newington, CT  
Staff Anesthesiologist

01-01-1992

**405<sup>th</sup> Combat Support Hospital**

US Army Reserve  
West Hartford, CT  
Chief of Anesthesia

1991

**Philadelphia Naval Hospital**

Philadelphia, PA  
Staff Anesthesiologist

04-04-1991

**Walson Army Community Hospital**

03-14-1991

Ft. Dix, NJ  
Staff Anesthesiologist

**Walter Reed Army Medical Center** 02-04-1991  
Washington, DC  
Staff Anesthesiologist

**Mt. Sinai Hospital** 10-05-1989  
Philadelphia, PA  
Staff Anesthesiologist

**The Graduate Hospital** 07-01-1989  
Philadelphia, PA  
Staff Anesthesiologist

**819<sup>th</sup> Station Hospital** 1986  
US Army Reserve  
West Hartford, CT  
General Medical Officer

### **Supplemental Medical Training**

Basic Disaster Life Support	2012
Advanced Disaster Life Support	2012
Medical Risk Management Course	2010-2017
Hospital Incident Command System	2007, 2008
Hospital Management of Chemical, Biological, Radiological, Nuclear and Explosive Incidents Course, US Army Medical Research Institute of Chemical Defense, Edgewood, MD	2006
Society of Cardiovascular Anesthesiologists Comprehensive Review of TEE	2005, 2006
Accuson Transesophageal Echocardiography (TEE) Optimization Course	1994
Hewlett-Packard TEE Teleconference	1994
Advanced TEE Course	1993
ASA Workshop on TEE	1992
Basic Life Support	1991, 1993, 2002, 2015, 2021 2023
Basic Life Support Instructor	2002, 2004
Advanced Cardiac Life Support	1985, 1990, 2001, 2009, 2011, 2013, 2015, 2017, 2019, 2021 2023
Pediatric Advanced Life Support	2005, 2007, 2009, 2010, 2011 2012, 2014, 2016, 2019, 2020, 2022
Am. Red Cross Intro. to Disaster Services	1995
Medical Aspects of Nuclear Weapons and Their Effects on Medical Operations	1993

PMSLIC Medico-legal Correspondence Course	1989
Advanced Subspecialty Training (PGY 4)	1989
Cardiac, Thoracic, and Vascular Anesthesia (4 months)	
Pediatric Anesthesia (4 months plus additional pediatric cardiac experience)	
Pain and Regional Anesthesia, Adult and Pediatric (2 months)	
Advanced Clinical Anesthesia (2 months)	
Advanced Trauma Life Support	1985

### **Management and Security Related Courses**

#### American College of Physician Executives:

Physician in Management Course	2011
Developing a Business Plan	2013
Managing Physician Performance	2013
Techniques of Financial Decision Making	2013
Three Faces of Quality	2013
Capstone	2017
Finance for Non-Financial Executives	
Stern School of Business, New York University	2013
Geospatial Analysis of Terrorism	
National Consortium for the Study of Terrorism and Responses to Terrorism (START), University of Maryland	2016
The Terror-Crime Nexus & Chemical, Biological, Radiological, and Nuclear Threats, National Consortium for the Study of Terrorism and Responses to Terrorism (START), University of Maryland	2016
Countering Violent Extremism, National Consortium for the Study of Terrorism and Responses to Terrorism (START), University of Maryland	2019

### **FEMA Emergency Management Institute Courses Completed**

IS-100	Introduction to the Incident Command System
IS-200	ICS for Single Resources and Initial Action Incidents
IS-700	National Incident Management System (NIMS), an Introduction
IS-800.A	National Response Plan (NRP), an Introduction
AWR-160-W	Terrorism Awareness for Emergency Responders 2020

### **US Department of Homeland Security Courses**

#### Community Emergency Response Team (CERT) Program

IS-317	Introduction to Community Emergency Response Teams
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### **Board Certification**

Diplomate, National Board of Physicians and Surgeons	08-22-2022 – 08-31-2024
Testamur, (Board Eligible) National Board of Echocardiography	2007
Diplomate, American Board of Anesthesiology	04-27-1990

Diplomate, National Board of Medical Examiners 07-01-1986

### **Medical Licenses**

Connecticut  
 Pennsylvania  
 New Jersey  
 Florida

### **Civilian Honors and Awards**

The Honor Society of Phi Kappa Phi	2018
Beta Gamma Sigma, The International Business Honor Society	2017
Certified Physician Executive (CPE)	2017
Fellow, American Society of Anesthesiologists	2017
AMA Physician Recognition Award	2011-2014
Guide to America's Top Anesthesiologists, Consumer's Research Council of America	2007
Elected to Senior Member, Institute of Electrical and Electronic Engineers	2006
AMA Physician Recognition Award with Distinction	2005
AMA Physician Recognition Award	2002-2004
AMA Physician Recognition Award	1998-2001
AMA Physician Recognition Award	1993-1996
Delaware Valley Hospital Council Certificate of Recognition	1991
AMA Physician Recognition Award	1989
Tovell Award for Excellence in Research, Academics, and Clinical Medicine, Hartford Hospital	1989

### **Special Credentials**

Intra-operative Transesophageal Echocardiography, Hartford Hospital, 1993-2023.

### **Mentorships**

Premedical Student Advisor  
 Department of Biomedical Engineering  
 University of Connecticut School of Engineering, 2004-2020

Research Mentor for Hartford Hospital Summer Student Fellows, 1998-2008.  
 Research Mentor for Trinity College Engineering Students, 2009, 2012-2013.  
 Research Mentor for University of Hartford Students, 2012-2014.

Mentor, Avon "Uberbots," Team 1124, US FIRST Robotics, 2006-2007.

### **Committee Membership**

**Committee on Fundamentals of Anesthesia, American Society of Anesthesiologists, 2021-2023**

**Chair, Quality and Practice Committee**, Integrated Anesthesia Associates, LLC, 2018-present.

**Connecticut State Medical Society, Committee on Disasters and Emergency Preparedness**, 2014-2020. **Chair**, 2016-present.

**Chair, Mass Casualty Committee**, Trauma Anesthesiology Society, 2014-present.

**Global Health Committee, Hartford Hospital**, 2013-2015.

**Director, World Association for Disaster and Emergency Medicine**, 2021-2025.

-**Co-Chair, CBRN and Austere Surgical Teams SIGs**, 2017-2019.

-**CBRN Advisory Committee**, 2011-2015.

-**Annual Meeting Committee**, 2023-2025

**International Advisory Committee**, CBRN-Terrorism Newsletter, Research Institute for European and American Studies, [www.cbrne-terrorism-newsletter.com](http://www.cbrne-terrorism-newsletter.com), 2011-2020.

**Industry Affairs Committee**, Biomedical Engineering Society, 2011-2014.

**Chair, Strategic Planning Committee**, Hartford Anesthesiology Associates, Inc., 2010-2015.

**Section Chief, Anesthesia Resident Rotation for Echocardiography**

Residency in Anesthesiology

University of Connecticut School of Medicine, 2006-2007, 2010-2012.

**Chair, Task force on Emergency Preparedness**, Committee on Trauma and Emergency Preparedness, American Society of Anesthesiologists, October, 2007-2015.

-Member, 2007-present.

-Ebola Workgroup, 2014.

-**Liaison to WADEM, 2017-present.**

**ASTM Task Group on Hospital Preparedness**

Committee E54.02 on Emergency Preparedness, Training, & Procedures, 2007, 2009-2015.

Committee on Decontamination, 2008.

Committee on Personal Protection, 2008.

Committee on Security Systems and Equipment, 2011-2015.

**Cardiac Anesthesia Steering Committee**, Hartford Hospital, Hartford, CT, 2006-2011.

**Multidisciplinary Trauma Committee**, 2003-2021.

**High-Risk Cardiac Surgery Committee**, 2006-2012.

**Hartford Hospital Emergency Management Committee**, Hartford Hospital Hartford, CT, 2003-2015.

-**Drill and Exercise Subcommittee**, 2008-2015.



**-Campus-wide Decontamination Committee, 2008-2012.**

**Biomedical Engineering Alliance and Consortium. 1998-2015.**

[www.beaconalliance.org](http://www.beaconalliance.org) An organization of academic, industrial and clinical medical researchers which collaborates to produce new medical devices, foster biomedical engineering education, and biomedical business opportunities. *Member of Steering Committee and Biotech Incubator.*

**Electromagnetic Compatibility Committee, Hartford Hospital, 1996-2015.** *Advises hospital on radio-frequency interference issues.*

**US Department of Homeland Security-American College of Surgeons Educational Resource Workgroup, 2009.**

**Working Group on Safe Hospitals, World Association of Disaster and Emergency Medicine, Amsterdam, Netherlands, May 2007.**

**Hartford Hospital Medical Staff Council. 2002-2003.**

**UConn Biomedical Engineering Constituency Committee,**  
Department of Biomedical Engineering,  
School of Engineering, University of Connecticut, 2005

**Assistant Director of Education, Anesthesia Resident Education Committee,** University of Connecticut/Hartford Hospital Combined Residency in Anesthesiology, 1997-1998. *Responsible for academic content of the training program and resident recruitment. Developed a new curriculum incorporating state of the art teaching techniques. Emphasis on applying high technology medicine in a managed care environment. Lead developer of marketing materials including a new brochure and Web site.*

**Director, Medical Student Clerkship in Anesthesiology, University of Connecticut School of Medicine, 1998-1999.** *Responsible for coordinating the education of medical students rotating through the Department of Anesthesiology.*

**Staff Development and Education Committee,** Department of Anesthesiology, Hartford Hospital, 1997-1999. *Responsible for departmental education, conferences, lectures, etc. Current projects include development of a departmental "intranet" information resource.*

**Executive Committee, Department of Anesthesiology,** Hartford Hospital, 1996-1997. *Committee advises the Director and makes major policy decisions for the department.*

**Hartford Hospital Materials Evaluation Committee, 1997-2009.** *Committee approves major acquisitions of medical supplies and systems throughout Hartford Hospital.*

**Chairman, Medical Capital Equipment Committee,** Department of Anesthesiology, Hartford Hospital and Connecticut Children's Medical Center, 2003-2007. Member, 1994-2013. *Evaluate and approve major anesthetic equipment purchases. Current*

*projects include acquisition of “intranet” linked anesthesia gas delivery machines, physiologic monitors, integrated anesthesia management software system and BIS<sup>®</sup> (“level of consciousness”) monitors.*

**Anesthesia Library Committee**, Department of Anesthesiology, Hartford Hospital, 1993-1997. *Directed purchase and installation of anesthesia educational and simulation software for the department. Recommended and assisted with purchase of textbooks for the new Tovell Library.*

**Chairman, New Physician Evaluation Task Force**, Department of Anesthesiology, Hartford Hospital and Hartford Anesthesiology Associates, Inc., 1995. *Developed criteria for evaluation of new attending anesthesiologists at Hartford Hospital and Hartford Anesthesiology Associates, Inc.*

**Anesthesia Resident Education Committee, Hartford Hospital Anesthesiology Residency**, 1993-Present. *Redesigned curriculum and instituted a reading program that resulted in a class of residents scoring in the 99<sup>th</sup> percentile on the National Board Examinations.*

**Research Subcommittee, Long Range Planning Committee**, Department of Anesthesiology, Hartford Hospital, 1993. *Made recommendations which led to implementation of an infrastructure to facilitate research as well as an internal research review committee.*

### **Journal Reviewer**

Reviewer, **Disaster Medicine and Public Health**, Cambridge Academic Press, 2021.

Reviewer, **Case Reports in Radiology**, Hindawi, 2021.

Reviewer, **Journal of Health Sciences**, Official journal of the University of Sarajevo Faculty of Health Studies, 2021.

Reviewer, Critical Care, Trauma and Resuscitation, **Anesthesia & Analgesia**, International Anesthesia Research Society, Lippincott, Williams & Wilkins, Philadelphia, PA, 2011.

## **MILITARY CAREER**

### **Branch and Highest Rank**

Major, Medical Corps  
United States Army Reserve  
(Veteran, Operation Desert Storm)

**Period of Service**

04-09-1982 to 10-27-1999

Honorable Discharge

**Military Education****Year Completed**

Medical Management of Biological and Chemical Casualties Course, Ft. Detrick, MD and Edgewood Arsenal, MD	1993
Reserve Components Officer Advanced Course Phase I	1993
Range Safety Officer Course Ft. Devens, MA	1992
Deployable Medical Systems (DEPMEDS) Course Ft. Devens, MA	1992
Medical Management of Chemical Casualties 804th Hospital Center Boston, MA	1987
Basic Officer Branch Course Ft. Sam Houston, TX	1984
Health Issues and Mission Capability 804th Hospital Center Boston, MA	1994
Medical Issues in Areas of Global Tension 804th Hospital Center Boston, MA	1984
Managing the Acute Casualty 804th Hospital Center Boston, MA	1983
Health and the Stressful Environment 804th Hospital Center Boston, MA	1982

**US Decorations****Year Awarded**

Armed Forces Reserve Components Medal	1992
Superior Unit Citation (WRAMC)	1991
Army Achievement Medal 3 <sup>rd</sup> Oak Leaf Cluster	1991
Army Achievement Medal 2 <sup>nd</sup> Oak Leaf Cluster	1991
National Defense Service Medal	1991

Army Reserve Components Achievement Medal	1990
<sup>st</sup> 1 Oak Leaf Cluster	
Army Achievement Medal <sup>st</sup> 1 Oak Leaf Cluster	1987
Army Reserve Components Achievement Medal	1986
Army Achievement Medal	1984

**Record of Duty Assignment****Dates**

<b>United States Army Reserve Control Group</b> (Reinforcement) Army Personnel Center 9700 Page Boulevard St. Louis, MO 63132-5200	1995 to 1999
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**Chief Anesthesiologist**

1994-1995

<sup>th</sup> 405 Combat Support Hospital  
West Hartford, CT 06110-1292  
*Supervised 6 MD anesthesiologists and 12 nurse anesthetists in a 300-bed hospital. Prepared standard operating procedures and training for the anesthesia section resulting in the 405<sup>th</sup> CSH being ranked as No. 1 in the United States for medical readiness.*

**Anesthesiologist**

1991-1994

<sup>th</sup> 405 Combat Support Hospital  
West Hartford, CT 06110-1292  
*Special Project Officer for Nuclear, Biological, and Chemical Casualty Care. Developed training for physicians and nurses for treating nuclear, biological, and chemical warfare casualties. Unit Medical Intelligence Officer for Task Force DIRIGO, Fuertes Caminos (North) 1993. Prepared medical threat analysis and briefings for a large medical operation to Guatemala.*

**Anesthesiologist**

1991

<sup>nd</sup> F Company, 2 Battalion  
Medical Center Brigade  
Walter Reed Army Medical Center  
Washington, DC  
*Operation Desert Storm. Temporary Duty to Walson Army Community Hospital, Ft. Dix, NJ and Philadelphia Naval Hospital, Philadelphia, PA. Acting Chief of Anesthesiology, Philadelphia Naval Hospital, Philadelphia, PA. Provided anesthesia care to sick and wounded service members.*

**Anesthesiologist**

1989-1991

<sup>th</sup> 819 Station Hospital  
West Hartford, CT 06110-1292  
*Assistant Operations Officer. Range Safety Officer. Planned training and operations for*

*a 300 bed hospital. Operated a field emergency room during exercises at Ft. Drum, NY.*

**Commander**

1987-1989

<sup>th</sup>  
526 Medical Detachment (Dispensary)  
West Hartford, CT

*Commanded, supervised, and trained a 10 member **Rapid Deployment Force** medical team. Prepared medical intelligence summaries, war plans, and planned military medical operations for a light, highly mobile field dispensary. Treated patients under simulated combat conditions in support of 8000 troops of the 50<sup>th</sup> Armored Division at Ft. AP Hill, VA. Nuclear, Biological, Chemical Officer, Chemical Detection Team Leader, Radiological Monitoring Team Leader, Physical Security Officer, Arms Officer. **Developed "Emergency Medical Handbook" that was used as a prototype for the Army's "Chemical Handbook."***

**General Medical Officer**

1986-1987

Physical Examination Section

<sup>th</sup>  
819 Station Hospital  
West Hartford, CT

*Performed physical examinations. Operated emergency field treatment station at Ft. Campbell, KY in support of Basic Training.*

**Field Medical Assistant**

1982-1986

Training Section

<sup>th</sup>  
819 Station Hospital  
West Hartford, CT

*Instructor for Expert Field Medical Badge Course. Trained unit personnel in military tasks. Performed emergency field medical treatment.*