CURRICULUM VITAE GEOFFREY A. CAPRARO, MD, MPH

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EDUCATION

Undergraduate	Tufts University, Psychology, B.S., 1989, cum laude
Medical School	University of Massachusetts Medical School, 8/1992- 6/1996, M.D. 1996
M.P.H.	Boston University School of Public Health, Epidemiology/Biostatistics, M.P.H., 2005
POSTGRADUATE TRAINING	
Residency	St. Christopher's Hospital for Children, Erie Ave. at Front St., Philadelphia, PA,

Residency	Pediatrics, 7/1996- 6/1999
Fellowship	Boston Medical Center, 88 E. Newton St., Boston, MA, Pediatric Emergency Medicine, 7/2000- 6/2003
Research Fellow	Boston University School of Medicine CREST Program, Boston, MA 2001-2003

POSTGRADUATE HONORS AND AWARDS

Innovations Award, Department of Emergency Medicine, Brown University Alpert School of Medicine, 2017

Teacher of the Year, Baystate Medical Center Department of Pediatrics, 2007

Best oral presentation, New England Regional Society of Academic Emergency Medicine, 2006

Henry W. Baird Award St. Christopher's Hospital for Children, 1999 (for outstanding teaching and patient and family care)

Finalist, American Heart Association Empowered to Serve National Business Accelerator, accepted July 2023 (does this belong here?)

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

CV: CAPRARO GA

Rhode Island MD13447: 2010-Present

Massachusetts #206326: 2000-2011

American Board of Pediatrics, Pediatric Emergency Medicine #1190: 11/15/2004- present

ACADEMIC APPOINTMENTS

Associate Professor, Clinician Educator in Emergency Medicine, Alpert School of Medicine at Brown University, 2019-present

Assistant Professor, Emergency Medicine, Alpert School of Medicine at Brown University, 2010-2019

Assistant Professor, Emergency Medicine, Tufts University School of Medicine, 2003-2010 Instructor, Pediatrics, Boston Medical Center/Boston University School of Medicine, 2000-2003 Instructor, Pediatrics, St. Christopher's Hospital for Children/ Drexel University, 1999-2000

HOSPITAL APPOINTMENTS

Attending Physician, Rhode Island Hospital/Hasbro Children's Hospital, 2010-present Attending Physician, Miriam Hospital, 2020-present Attending Physician, Newport Hospital, 2020-present Attending Physician, Emergency Medicine, Baystate Medical Center, 2003-2010 Graduate Assistant, Emergency Medicine, Massachusetts General Hospital, 2002-2003 Clinical Instructor, Pediatrics, Boston Medical Center, 2000-2003 Instructor in Pediatrics, St. Christopher's Hospital for Children, 1999-2000

HOSPITAL COMMITTEES

PEMFitness critical skills planning group, Brown Emergency Medicine, 2022-present Belonging, Equity, Diversity and Inclusion Committee, Brown Physicians Inc, 2020- present: Chair Community Engagement sub-committee; 2022- present Diversity and Inclusion Committee, Brown Emergency Medicine, 2019-2020 Clinical Competency Committee, Fellowship in Pediatric Emergency Medicine, Brown University Alpert School of Medicine 2014- present Master Facility Planning Committee, Emergency Department, Baystate Medical Center, 2007-2010

UNIVERSITY COMMITTEES

Brown Swearer Center Learning Community in STEM Engagement K-12, 2019- 2020 Brown Swearer Center Learning Community regarding K-12 engagement, 2020- 2021

MEMBERSHIP IN SOCIETIES

Fellow, American Academy of Pediatrics Fellow, American College of Emergency Physicians Member, Society for Academic Emergency Medicine

PUBLICATIONS LIST

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

- 1. Chang TL, **Capraro GA**, Kleinman RE, Abbas AK. Anergy in immature B lymphocytes: differential responses to receptor-mediated stimulation and T helper cells. *Journal of Immunology*. 1991;147(3):750-756.
- 2. Xu M, Capraro GA, Diabeta M, Humphreys RE. Cathepsin B cleavage and release of invariant chain from MHC II molecules follows a staged pattern. *Molecular Immunology*. 1994;31(10):273-277.
- 3. Scarfone RJ, Zorc JJ, **Capraro GA**. Patient self-management of acute asthma: adherence to national guidelines a decade later. *Pediatrics*. 2001;108:1332-1338.
- 4. Scarfone RJ, Capraro GA, Zorc JJ, Huaqing Z. Demonstrated use of metered-dose inhalers and peak flow meters by children and adolescents with acute asthma exacerbations. *Archives of Pediatric and Adolescent Medicine*. 2002;156:378-383.
- 5. **Capraro GA**, Mader T, Coughlin B, Lovewell CA, St. Louis M, Tirabassi M, Wadie G, Smithline H. Feasiblity of using near infrared spectroscopy to diagnose testicular torsion in a sheep model. *Annals of Emergency Medicine*. 2007;49(4):520-525.
- 6. **Capraro GA**, Coughlin B, Mader T, Smithline H. Testicular cooling associated with testicular torsion and its detection by infrared thermography: an experimental study in sheep. *Journal of Urology.* 2008;180(6):2688-2693.
- 7. Henneman PL, Garb JL, **Capraro GA**, Li H, Smithline HA, Wait RB. Geography and travel distance impact emergency department visits. *J of Emerg Med.* 2011;40(3):333-9.
- 8. Tutay G, Capraro GA, Spirko B, Smithline H. Electrolyte profile of pediatric patients with hypertrophic pyloric stenosis. *Pediatric Emergency Care*. 2013;29(4):465-468.
- 9. Schoenfeld EM, **Capraro GA**, Blank FS, Coute RA, Visintainer PF. Near-infrared spectroscopy assessment of tissue saturation of oxygen in torsed and healthy testes. *Acad Emerg Med*. 2013;10:1080-3.
- 10. Janicki, A, **Capraro G**. Delayed diagnosis of subdural empyema in a septic child. *RI Med J*. 2015;98(8):29-31.
- 11. **Capraro GA**, Etebari CA, Luchette KR, Mercurio LY, Merck DC, Kirenko I, Rocque M, van Zon K, Kobayashi L. "No Touch" Vitals: A Pilot Study of Non-contact Vital Signs Acquisition in Exercising Volunteers IEEE BioCAS, 2018;1-4.
- 12. **Capraro GA**, Rebola CB. Opinion Editorial: The NaloxBox Program in Rhode Island could serve as a model for building a system of community access naloxone. AJPH 2018;Dec;108(12):1649-1651.
- Kobayashi L, Chuck Scb CC, Kim CK, et al. Capraro GA. Pilot Study of Emergency Department Patient Vital Signs Acquisition Using Experimental Video Photoplethysmography and Passive Infrared Thermography Devices. In: 2019 IEEE 10th Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON). IEEE; 2019:0023-0032. doi:10.1109/UEMCON47517.2019.8993087
- 14. Capraro GA, Balmaekers B, den Brinker AC, Rocque M, DePina Y, Schiavo MW, Brennan K, Kobayashi L. Contactless Vital Signs Acquisition Using Video Photoplethysmography, Motion Analysis and Passive Infrared Thermography Devices During Emergency Department Walk-In Triage in Pandemic Conditions. J Emerg Med. 2022 Jul;63(1):115-129. doi: 10.1016/j.jemermed.2022.06.001. Epub 2022 Aug 6. PMID: 35940984.

OTHER NON-PEER-REVIEWED PUBLICATIONS

- 1. Capraro GA, contributor, Bauchner H, Vinci R, and Kim M, editors. Chapters on: Impetigo, Lice, and Scabies. In: Pocket Medicine/Pediatrics, a palm-top/handheld device format. PocketMedicine.com, Inc., 2002
- 2. Smith LA, Capraro GA, Frank DA, Wise PH. *Failing 'safety net' imperils children*. Boston Globe, Saturday September 21, 2002 Opinion A15

(ABSTRACTS PRESENTED FY24) PUBLICATIONS SUBMITTED OR IN PREPARATION:

- Comparison of Video Photoplethysmography, Video Motion Analysis, and Passive Infrared Thermography against Traditional Contact Methods for Acquiring Vital Signs in Emergency Department Populations Leo Kobayashi, Carlin C. Chuck, Chris K. Kim, Katherine R. Luchette, Alana Oster, Derek L. Merck, Ihor Kirenko, Kees van Zon, Marek Bartula, Mukul Rocque, Haibo Wang, Canberk Baci, Benoit Balmaekers, Rene Derkx, Geoffrey A. Capraro Abstract #1570940442 IEEE UEMCON October, 2023
- Assessment of Visual Patient Re-Identification in a Live Emergency Department Waiting Room Haibo Wang, Leo Kobayashi, Geoffrey A Capraro, Kees van Zon, Mukul Rocque, Sophia L. Bonenfant, Mark G. Brinkman, Mads P. Cosgriff, Samuel B. Craft, Rachel S. Fried, Abbey Haynes, Daniel J. Higgins, Hyein S. Lee, Meredith R. Mozzone, Christine Ortiz, Alana Oster, Evaniz Suarez, Jessica L. Tremblay, Derek L. Merck, Ihor Kirenko Abstract #1570947069 IEEE UEMCON October, 2023
- Internet-Of-Things Augmentation of Public Access Naloxone Containers to Establish a Distributed Network for Resource Monitoring and Utilization Research (NaloxBox+): Joanne Z. Liu, Frederick A. Varone, John K. Volpe, Leo Kobayashi, Geoffrey A. Capraro Abstract #1570940448 IEEE UEMCON October, 2023

ABSTRACTS

- 1. Scarfone RJ, **Capraro GA**, Zorc JJ. Demonstration of Metered dose inhalers and peak flow meters by inner city asthmatic children. Abstract for annual meeting of the American Academy of Pediatrics 2000
- 2. **Capraro GA**, Coughlin B, Mader T, Lovewell CA, St. Louis M, Tirabassi M, Wadie G, Smithline H. Feasiblity of using near infrared spectroscopy to diagnose testicular torsion in a sheep model. American Academy of Pediatrics, 2005
- 3. **Capraro GA**, Coughlin B, Mader T, Smithline H. Feasiblity of using infrared thermography to diagnose testicular torsion in a sheep model. National Society of Academic Emergency 2006
- 4. Bernstein J, **Capraro GA**, Rothman E, Marchena-Suazo A, Sandoval M, McKenna K, Bernstein E. Age of initiation for sexual intercourse predicts adolescent risk behaviors. National Meeting of the American Public Health Association, 2006
- 5. Henneman PL, Garb JL, **Capraro G**, Smithline HA, Li H, Skinner R, Wait R. Geography and Travel Distance Impact ED Visits. National Society of Academic Emergency, 2007
- 6. **Capraro, GA**, Blank F, Nathanson B, Reiser M, Jasienowski S, Ramakrishna A, Kelly P. Can the heat of localized soft tissue infections be quantified non-invasively using an infrared thermography camera? ACEP National Scientific Assembly, Chicago, November, 2008

- 7. **Capraro, GA**, Ramakrishna A, Kelly P, Blank F, Reiser M, Jasienowski S, Nathanson B. Tissue oxygenation in soft tissue infections. American College of Emergency Physicians (ACEP) National Scientific Assembly, Chicago, November, 2008
- 8. Tutay G, Capraro GA, Spirko B, Smithline H. Electrolyte profile in infants with hypertrophic pyloric stenosis. Pediatric Academic Societies, May, 2010
- 9. Kelly PA, Sobers T, St. Peter B, Siqueira PR, **Capraro GA**, "Temperature anomaly detection and estimation using microwave radiometry and anatomical information", Proc. SPIE 7961, 79614U (2011); doi:10.1117/12.87813
- Kelly P A, Sobers T, St. Peter B, Siqueira P, Capraro GA. Microwave radiometric signatures of temperature anomalies in tissue. Proceedings SPIE 8313: Medical Imaging – Physics of Medical Imaging 2012
- 11. Shoenfeld E, **Capraro GA**, Blank F, Coute R. Trans-scrotal assessment of testicular tissue saturation of oxygen in humans using near-infrared spectroscopy. ACEP Scientific Assembly, Denver, CO, October, 2012
- 12. Cuellar C-R, **Capraro GA**, Chapin KC, McCulloh RJ. Pilot investigation of biomarkers lactoferrin and inter-alpha inhibitor protein for pediatric appendicitis (Abstract #755603). Pediatric Academic Societies Annual Meeting, Washington, D.C., May, 2013
- Cuellar C-R, McCulloh RJ, Chapin KC, Capraro GA. Lactoferrin and inter-alpha inhibitor protein as biomarkers for pediatric bacterial infection (Abstract #750989). Pediatric Academic Societies Annual Meeting, Washington, D.C., May, 2013
- 14. Chapman LL, **Capraro GA**. Koster MP, Duffy SJ. Evaluation of a pediatric emergency department sepsis screening tool (Abstract #752530) Pediatric Academic Societies Annual Meeting, Vancouver, B.C., May, 2014.
- 15. **Capraro GA**, Gandhi C, Chatterton M, Baird J. The significance of meeting consensus pediatric sepsis definition for course subsequent to emergency department disposition. Accepted- 2016 New England Regional SAEM Meeting
- 16. Kobayashi L, Etebari CA, Luchette KR, Mercurio LY, Merck DC, **Capraro GA.** Comparison of non-contact infrared thermography and traditional contact methods for acquisition of body temperature in healthy volunteers. 2017 National SAEM
- 17. **Capraro GA**, Etebari CA, Luchette KR, Mercurio LY, Merck DC, Kirenko I, Rocque M, van Zon K, Kobayashi L Comparison of Non-Contact, Video Photoplethysmographic Acquisition of Heart Rate and Respiratory Rate Against Traditional Contact. 2017 New England Regional SAEM Meeting
- 18. Chuck C, Kim K, Luchette K, Capraro GA, Merk DL, Kirenko I, van Zon K, Bartula M, Rocque M, Kobayashi L. Pilot Study of Noncontact Vital Signs Acquisition in Emergency Department Patients, 2018 National SAEM Meeting
- 19. Kim K, Chuck C, Luchette K, Kobayashi L, Merk DL, Kirenko I, van Zon K, Bartula M, Rocque M, Capraro GA. Pilot study of non-contact vital signs acquisition technologies in a pediatric emergency department. 2018 Pediatric Academic Societies Annual Meeting.

SCHOLARLY WORK PUBLISHED IN OTHER MEDIA

NON-PEER-REVIEWED

1. Podcast with McNeil, Greg. Cover 2 Resources Episode 112. NaloxBox 8/24/17: https://cover2.org/programs/naloxbox/

- 2. Podcast with Picard, Traci. Social Enterprise Greenhouse. Stories from the Hub. NaloxBox. 9/2017: <u>https://soundcloud.com/user-508106824/stories-from-the-hub-naloxbox</u>
- 3. Website regarding G. Capraro's public health initiative Capraro's "NaloxBox" program to rescue opioid overdoses: www.naloxbox.org

INVITED PRESENTATIONS

INTERNTIONAL

1. Tech and Harm Reduction Symposium, 1/11/2022 Vancouver, BC Canada (virtual) "Physical and Tech Tools to Improve and Expand Rescue"

NATIONAL

- 1. CDC/ ASTHO Prevention for States and Data-Driven Prevention Initiative Recipient Conference. "NaloxBox: Tools, training, and awareness to support successful implementation of public access naloxone" Atlanta, GA, 5/22/2018: (colleague Erin McDonough represented)
- 2. SAEM18 Innovations. NaloxBox: Tools, Training, and Awareness to Empower Laypeople to Rescue Victims of Opioid Overdose. Indianapolis, IN, 5/16/2018.
- 3. NIH NIGMS Center of Biomedical Excellence in Research Excelence in Opioid and Overdose: Hackathon Panelist: 10/15/2021
- 4. Center on Rural Addiction, University of VT "Strategies for Distributing Naloxone in Rural Communities": 7/13/2022

LOCAL

- 1. Panel host: COBRE on Opioids and Overdose: 10/15/2021
- 2. TEDx BrownU Presentation: "Tools for Opioid Rescue Heroes": 10/25/2019
- 3. Panelist: Opioid COBRE: "Naloxone as a Public Rescue Asset": 9/16/2019
- 4. Keynote Address Brown Hack Health 2018/ Charles O. Cooke, MD Distinguished Visiting Lectureship. Brown Engineering Research Center, Providence, RI, 9/14/2018.
- 5. Panelist, The Opioid Crisis: Brown's Approach to Prevention and Treatment. Alpert School of Medicine, Providence, RI, 2/8/18.
- 6. Presenter regarding Capraro's "NaloxBox" program to rescue opioid overdoses. RI Governor's Overdose Preventions and Intervention Task Force. NaloxBox. RI Department of Administration, Providence, RI 9/13/17.
- 7. Brown University Pain Medicine Interest Group, Panelist: 12/13/2021
- 8. Brown University: Reframing Addiction- Anti-Stigma Research at Brown, Panelist: 3/10/22
- 9. Center for Digital Health Presentation: Lifespan/Brown: NaloxBox+ program. 10/19/2022

<u>GRANTS</u>

- 1. MPH and CREST fellowship training, PI: Dr. David Felson, "CREST" NIH K30 training grant through Boston University School of Medicine/Boston University School of Public Health, inkind, 2000-2003, recipient
- 2. "Utility of infrared thermography and near-infrared spectroscopy in the diagnosis of testicular torsion", Children's Miracle Network of Western MA: \$10,314, 2003-2005, PI

- 3. "Efficacy of a telephone booster for free window guard installation", Children's Miracle Network of Western MA, \$3,600, 2004-2005, PI
- 4. "Utility of infrared thermography and near-infrared spectroscopy in the diagnosis of testicular torsion", Department of Emergency Medicine T25 Fund, \$2,800, 2004-2005, PI
- 5. "Infrared thermography and near-infrared spectroscopy diagnosis of soft tissue infections", Department of Emergency Medicine, Baystate Medical Center, \$5,000, 2006-2007, PI
- 6. "Infrared thermography and near-infrared spectroscopy diagnosis of soft tissue infections", Children's Miracle Network of Western MA, \$14,150, 2006-2007, PI
- "Infrared thermography and near-infrared spectroscopy diagnosis of soft tissue infections", Collaborative Biomedical Research Grant of Baystate Medical Center and University of MA, \$5,000, 2006-2007, co-PI with Patrick Kelly, PhD, U. of MA Electrical Engineering
- 8. "Near-infrared spectroscopy for the evaluation and management of acute testicular pain", Baystate Medical Center Incubator Grant, \$76,081, 2007-2010, PI
- 9. "Passive microwave system development for emergency diagnosis", Collaborative Biomedical Research Grant of Baystate Medical Center and University of MA, \$24,484, 2009-2010, co-PI with Patrick Kelly, PhD, and Paul Siquiera, PhD, U. of MA Electrical Engineering
- 10. "Quantification of focal heat and infrared radiation associated with life-threatening infectious disease emergencies & diagnostic performance of biomarkers for serious infection", seed grant from University Emergency Medicine Foundation (UEMF), \$30,000, 2010-2013, PI
- 11. "Electromagnetic radiation as a screen for life-threatening infection", Junior Faculty Research Development Grant, UEMF, \$39,053, 2011-2013, PI
- 12. Novel Integrated Molecular Diagnosis of Bloodstream Infections (NIMBLE) trial, IWT-Flemish government- Biocartis (industry) collaborative, \$215,000, 2016-2017, site PI
- 13. Rhode Island Department of Health Mini-grant for Drug Overdose Prevention: NaloxBox: a novel system for public-access naloxone, \$4,742, 2017, Summer-Fall, 2017, PI
- 14. Rhode Island Department of Health Mini-grant for Drug Overdose Prevention: NaloxBox strategic placement and training: \$4,838 Fall-Winter, 2017, PI
- 15. VISTA Opioid Team Volunteer for NaloxBox, 2018- Present, with Miriam Hospital
- 16. U. of Cincinnati CUE grant. NaloxBox: Combating the Opioid Crisis by Design: Submitted, requested \$4,988, Spring-Summer, 2018, co-PI, PI Claudia Rebola
- 17. Brown Emergency Medicine Faculty Innovation Grant. An engaging, entertaining, hand-held solution to facilitate video-based acquisition of vital signs: \$7,000, 2018-2019, PI.
- 18. Philips "NAViGATOR 2". Assessment of emerging computer vision algorithms for evaluation of vital signs in an all-ages emergency medicine cohort: \$ ~35,320, 2019, co-PI
- 19. Philips "NAViGATOR T1C". Use of emerging computer vision algorithms for vital signs assessment in pandemic emergency triage: \$ 40,601, 2019, co-PI
- 20. GE: Supply chain and communications capabilities for NaloxBox: In-kind, 2020
- 21. Brown EM Diversity, Equity, and Inclusion: Prioritized Immunization for People of Color COVID vaccine grant: \$12,000, 2020, PI
- 22. SAMHSA New England Addiction Technology Transfer Center Network support for SciToon rescue video creation and stigma reduction vignettes: \$34,864, 2020, sub-I
- 23. COBRE on Opioids and Overdose (P20GM125507): Production of opioid stigma reduction vignettes: \$15,000, 2020, co-I
- 24. COBRE on Opioids and Overdose (P20GM125507: Internet-of-Things Augmentation of Public Access Naloxone Containers to Establish a Distributed Network for Resource Monitoring and Utilization Research (NaloxBox+). \$25,000, 2022, co-I

- 25. Brown Emergency Medicine Faculty Development Award: QRST program: QR posters for Stigma reduction and Training in overdose rescue \$39,462
- 26. PedCAPS Derivation and Validation of the Pediatric Community-Acquired Pneumonia Severity (PedCAPS) Score \$65,971. PECARN Site PI
- 27. (Submitted) Integration of an opioid dispensing, monitoring, and disposal platform with a hospital pharmacy to reduce opioid use by discharged emergency department patients, NIH SBIR Phase 1 grant with Addinex Technologies. \$59,359. Site-PI.

UNIVERSITY TEACHING, ADVISING and MENTORING ROLES

Advisor, MassChallenge, 2023-

Faculty Mentor, Joanne Liu, SRA-EM, Summer 2022

Faculty Mentor, Daniel Hu, Scholarly Concentration MTIE: 2022-Present

Faculty Mentor, Design x Health: 2022- present

Faculty mentor, Fellow in Pediatric Emergency, Lauren Vrablik: 2020-present

Clinical Mentor, Eng 1930L Biomedical Engineering Design and Innovation: Fall, 2020, Fall, 2021, Fall 2022

Clinical Mentor, Brown Design + Health small group, innovations for improved emergency experience for children with mental health emergencies, Fall, 2019

Mentor, Quinn Austin, Brown Emergency Medicine resident, medical device entrepreneurship, Fall, 2019

Mentor, Sakina Sojar, Fellow in Pediatric Emergency Medicine, clinical plus innovation and entrepreneurship, 2018-2021

Mentor, Joe Gu, Medical Student, Brown Alpert Medical student, 2018- present

Advisor, Social Entrepreneurship Greenhouse, Providence, RI, 2018- presen

Mentor Carlin Chuck, Brown Alpert Medical Student, non-contact vital signs, 2017-2020

Mentor, Chris Kim, Brown undergraduate, non-contact vital signs, 2017-2019

Mentor, Co-Director, Scholarly Concentration in Medical Technology, Innovation, and Entrepreneurship, Brown University Alpert School of Medicine, 2016- present

Faculty mentor, 2017 Summer Research Assistant in Emergency Medicine Program, Brown University Alpert School of Medicine, Brown University Alpert School of Medicine, Mentees: Carlin Chuck, Chris Kim

Faculty mentor, Brown University Undergraduate BIOL1050/1960 Independent Study, Student Katherine Luchette, Spring 2017

Faculty mentor, 2016 Summer Research Assistant Program in Emergency Medicine, Brown University Alpert School of Medicine, Brown University Alpert School of Medicine, Mentee: Cameron Etebari

Faculty mentor, Brown Hack Health, 2016-2018, judge 2019

Faculty mentor, Pediatric Emergency Medicine Fellow: Robyn Wing, 2013-2016

Faculty mentor, 2015 Summer Research Assistant in Emergency Medicine Program, Brown University Alpert School of Medicine, Mentee: Christy Gandhi

Faculty mentor, Brown University Undergraduate BIOL1050/1960 Independent Study, Student Jonathan Ciriello, 2013-2014

Faculty mentor, 2013 Summer Research Assistant in Emergency Medicine Program, Brown University Alpert School of Medicine, Mentee: Olajumoke Akinsulire

Faculty mentor, 2012 Summer Research Assistant in Emergency Medicine Program, Brown University Alpert School of Medicine, Mentee: Jamila Crossman

Brown University medical students: clinical preceptor for pediatric emergency medicine experience during Pediatric Clerkship, Alpert School of Medicine, 2010- present

Bedside teaching of students from Tufts University School of Medicine, 2003-2010

Longitudinal preceptor, Drexel University School of Medicine, 1999-2000

HOSPITAL TEACHING, ADVISING, and MENTORING ROLES

Director, Pediatric Emergency Medicine Core Curriculum Asynchronous learning, Fellowship in Pediatric Emergency, Brown University Alpert School of Medicine/ Hasbro Children's Division of Emergency Medicine, 2017- 2019. 6 Fellows per year.

Director, PemCrit curriculum for Pediatric Emergency Medicine Division Conference: Critical case discussion series. 2017- 2020.

Didactic presenter, Department of Emergency Medicine Combined Fellowships' Research Education Course, 2016- 2018. Approximately 12 Fellows per year.

Didactic and bedside teaching of fellows in Pediatric Emergency Medicine at Hasbro Children's Hospital/ Rhode Island Hospital/ Brown University Alpert School of Medicine, 2010- present

Didactic and bedside teaching of residents in Emergency Medicine, Family Medicine, Pediatrics, and Internal Medicine-Pediatrics at Hasbro Children's Hospital/ Rhode Island Hospital/ Brown University Alpert School of Medicine, 2010- present

Didactic, bedside, and research teaching of fellows in Pediatric Emergency Medicine, Baystate Medical Center/ Tufts University School of Medicine, 2006-2010

Didactic and bedside teaching of residents in Emergency Medicine, Pediatrics, and Internal Medicine-Pediatrics, Baystate Medical Center/ Tufts University School of Medicine, 2003-2010