

**EMORY UNIVERSITY SCHOOL OF MEDICINE
CURRICULUM VITAE**

Revised: 04/12/2022

1. **Name:** Michael J. Carr, MD FACEP

2. **Office Address:**

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3. **E-mail Address:** michael.j.carr@emory.edu

4. **Citizenship:** United States of America

5. **Current Titles and Affiliations:**

a. Academic Appointments:

- i. Primary Appointment: Assistant Professor of Emergency Medicine, Emory University School of Medicine.
Date of appointment: August 1, 2018.
- ii. Joint / Departmental Appointment: Assistant Professor of EMS and Prehospital Medicine, Emory University School of Medicine.
Date of appointment: August 1, 2018.

b. Clinical Appointments:

- i. Medical Director, DeKalb County Fire Rescue, Atlanta, Georgia.
Date of appointment: February 1, 2020
- ii. Associate Medical Director, Air Life Georgia Helicopter EMS, Atlanta, Georgia.
Date of appointment: August 1, 2018

6. **Previous Academic and Professional Appointments:**

- a. Clinical teaching faculty, Newark Beth Israel Medical Center, Newark, New Jersey. Dates: July 1, 2017 – June 30, 2018

7. Previous Administrative and/or Clinical Appointments:

- a. Deputy Medical Director, MONOC EMS Agency, Wall Township, New Jersey. Dates: July 1, 2017 – June 30, 2018.
- b. Associate Medical Director, American Medical Response EMS, Dekalb County, Georgia. Dates of appointment: August 1, 2018 – February 28, 2019.

8. Licensures/Boards:

- i. New Jersey (Number: 25MA10115600). Date Issued: May 31, 2017. Status: Inactive
- ii. North Carolina (Number: 2018-00691). Date Issued: March 31, 2018. Status: Inactive
- iii. Georgia (Number: 080333). Date Issued: April 25, 2018. Status: Active

9. Specialty Boards:

- i. Emergency Medicine, American Board of Emergency Medicine. Date issued: June 14, 2018. Status: Active
- ii. EMS and Disaster Medicine, American Board of Emergency Medicine. Date issued: November 19, 2021. Status: Active

10. Education:

- i. Siena College, Loudonville, NY. Bachelor of Science, Biology, 2004-2008
- ii. Université Paul Valerie, Montpellier, France. International Partnership for Service-Learning (I.P.S.L.), 08/2006-12/2006
- iii. St. George's University School of Medicine, Grenada, West Indies. Doctor of Medicine, 2010-2014

11. Postgraduate Training:

- i. Internship and Residency in Emergency Medicine, Newark Beth Israel Medical Center, Newark, New Jersey, 2014-2017
Supervisor: Dr. Patrick B. Hinfey, MD
- ii. Chief Resident in Emergency Medicine, Newark Beth Israel Medical Center, Newark, New Jersey, 2016-2017
Supervisor: Dr. Patrick B. Hinfey, MD
- iii. Fellowship in Emergency Medical Services (EMS) and Disaster Medicine, Newark Beth Israel Medical Center, Newark, New Jersey, 2017-2018
Supervisor: Dr. Mark A. Merlin, DO

12. Continuing Professional Development Activities:

- i. Advanced Trauma Life Support (ATLS), 2015
- ii. Fire Department New York (FDNY) Medical Special Operations Course and Field Amputation and Cadaver Lab, 2017
- iii. Federal Emergency Management Agency (FEMA) / Department of Homeland Security: Incident Response to Terrorist Bombings

- Course, 2017
- iv. FEMA / Department of Homeland Security: Medical Management of Chemical, Biological, Radiological, and Nuclear (CBRN) Events, 2017
- v. Department of Homeland Security Office for Bombing Prevention: AWR 333, AWR 337, 2017
- vi. Incident Command System (ICS) 100, 200, 700, 800, and 907 Active Shooter Training, 2017
- vii. ICS 300 and 400, 2018
- viii. Basic Life Support (BLS), Advanced Cardiac Life Support (ACLS) and Pediatric Advanced Life Support (PALS), 2021
- ix. Basic Disaster Life Support (BDLS) and Advanced Disaster Life Support (ADLS), 2018
- x. Practicing Human Subject Research Participants NIH Certification, 2014
- xi. Faculty Development Series, Emory University School of Medicine, Department of Emergency Medicine, Atlanta, Georgia
 - a. September 20, 2018: Development of Scholarship; Focus on Promotion
 - b. January 17, 2019: The Key to Scholarship; Ultrasound Skill Stations
 - c. March 21, 2019: End Note – How to Build Your Bibliography; How to Advance the Needle in Education
 - d. October 17, 2019: Your Financial Health. Dr. Peter Sebel.
 - e. April 20, 2021: Promotion readiness workshop. Dr. David Loring
- xii. Tactical Emergency Casualty Care (TECC), August 8 & 9, 2020

13. **Committee Memberships:**

- a. National and International:
 - i. American College of Emergency Physicians (ACEP) – Member, Committee on EMS and Disaster Preparedness, 2018-Present
 - ii. National Association of EMS Physicians (NAEMSP) – Member, ACEP Committee, 2018-Present
 - iii. National Association of EMS Physicians (NAEMSP) – Member, Committee on Mobile Integrated Health and Community Paramedicine
- b. Regional:
 - i. National Association of EMS Physicians (NAEMSP) – Georgia Chapter, Member, State Chapter Initiation Committee, January 2019-Present
 - ii. Air Methods Southeast Regional Medical Directors Committee, August 2018-present
 - iii. Georgia EMS Medical Directors Advisory Committee (EMSMDAC), August 2018-present
 - iv. DeKalb County Dispatch Steering Committee, September 2020-

- Present
- v. Georgia EMSMDAC Subcommittee: Crisis Standards of Care. February 2021 – present
- vi. Georgia NAEMSP Subcommittee: Involuntary patient treatment and transport. January 2021 – present
- vii. Georgia Department of Public Health Regional Coordination Center (GCC) Advisory Board – July 2021 - present
- c. Institutional:
 - i. Emory University / Emory Healthcare – Member, EPIC Care-Link Development Committee, 2020-Present
 - ii. Emory University Department of Emergency Medicine – Member, Telemedicine Committee, 2019-Present
 - iii. Emory University School of Medicine – Member, EMS Fellowship Program Evaluation Committee, 2019-Present
 - iv. Emory University School of Medicine - Member, STEMI Review Committee, 2018-Present
 - v. Emory University School of Medicine, Department of EM – Member Technology Initiative and Innovations Committee, 2019 - Present
 - vi. Newark Beth Israel Medical Center, Newark, NJ – Member, Committee for the Advancement of Ultrasound Guided Peripheral IV Lines, 2016-2018
 - vii. Newark Beth Israel Medical Center, Newark, NJ – Member, Committee on Documentation Completion and Compliance, 2018
 - viii. Emory University Hospital Unit Practice Council (UPC) Awards Committee. Tasked to select awardees for 2020 virtual award ceremony, July 2020.

14. Consultantships/Advisory Boards:

- i. Medical Advisory Board – Member, MONOC EMS, Wall Township, NJ, 2017-2018
- ii. Joint Commission Advisory Board, Comprehensive Stroke Center Review, EMS and Air Methods Representative, Emory University, Atlanta, GA, July 29, 2019.
- iii. Region III EMS Council – Member, Atlanta, GA, February 2020-Present
- iv. Medical Advisory Board to the Pediatric Prehospital Airway Resuscitation Trial (PEDI-PART), October 20, 2020.
- v. COVID-19 Clinical Advisory Board for Aerogen, an International Nebulizer Company, December 2, 2020.

15. Honors and Awards

- i. Faculty Excellence Award, Emory University School of Medicine Annual Awards Ceremony, October 20, 2021: Award Recognizing the DeKalb County Torchbearer Award.

- ii. DeKalb County Torchbearer Award, “For involvement in the community with establishing the Emory Rural Tele-EMS Network.” April 19, 2021.
- iii. Faculty Excellence Award, Emory University School of Medicine Annual Awards Ceremony, October 28, 2020: Award for Founding President of Georgia Chapter NAEMSP
- iv. Elected Founding President, Georgia Chapter – National Association of Emergency Physicians (NAEMSP), 2019-Present
- v. Selected as “I.D.E.A.S. – Innovation and Discovery in the Emergent and Acute Sciences” Scholar. Emory University, Atlanta, Georgia 2019-2020.
- vi. Selected Graduate Medical Education Representative for Entire Institution, Clinical Learning Environment Review (CLER), Newark Beth Israel Medical Center, Newark, New Jersey, 2018
- vii. Awarded Resident of the Year, Newark Beth Israel Medical Center Emergency Medicine Residency, Newark, New Jersey, 2016, 2017
- viii. Elected Chief Resident, Newark Beth Israel Medical Center Emergency Medicine Residency, Newark, New Jersey, 2016-2017
- ix. Research Award, Newark Beth Israel Medical Center, Emergency Medicine Residency, Newark, New Jersey, 2017
- x. Selected Graduate Medical Education Representative for Emergency Medicine Residency, Clinical Learning Environment Review (CLER), Newark Beth Israel Medical Center, Newark, New Jersey, 2016
- xi. Vice President Phi Sigma Biological Honor Society, Siena College, Loudonville, New York, 2007-2008
- xii. President’s List, Siena College, Loudonville, New York, 2007-2008
- xiii. Dean’s List, Siena College, Loudonville, New York, 2004, 2006

16. Society Memberships:

- i. International Partnership for Service Learning, Université Paul Valerie, Montpellier, France, 2006-2007
- ii. Phi Sigma Biological Honor Society, Siena College, Loudonville, New York, 2007-2008
- iii. Alpha Kappa Alpha Honor Society, Siena College, Loudonville, New York, 2008-Present
- iv. Medical Student Research Institute, St. George’s University School of Medicine, Grenada, West Indies, 2012-2014
- v. American College of Emergency Physicians (ACEP), Member, 2012-Present
- vi. Emergency Medicine Resident’s Association (EMRA), Member, 2012-Present
- vii. National Association of EMS Physicians (NAEMSP), Member, 2017-Present

- viii. Society for Academic Emergency Medicine (SAEM), Member, 2018-Present
- ix. Georgia Chapter NAEMSP, Member, Founding president. 2019-Present

17. Organization of Conferences:

- a. National:
 - i. Georgia Chapter of the National Association of EMS Physicians (NAEMSP) Annual Conference Meeting (virtual), January 14, 2021
- b. Regional:
 - i. Administrative Positions:
 - Lead Organizer, Emergency Medicine-Critical Care Symposium Newark Beth Israel Medical Center, Newark, New Jersey, 2015-2018

18. Clinical Service Contributions

- a. Institutional:
 - i. Airway Checklist Initiative, Lead Investigator, Newark Beth Israel Medical Center, Newark, New Jersey, 2015; Researched and successfully added Airway Checklist to Airway Box throughout hospital.
 - ii. Joint Commission Advisory Board, Comprehensive Stroke Center Review, EMS and Air Methods Representative, Emory University, Atlanta, GA, July 29, 2019.
 - iii. Hospital-Wide Mass Casualty Drill, Planning and Participation, Emory University Hospital, Atlanta, GA, October 7, 2019
 - iv. COVID-19 Response: EMS Para-telemedicine Initiative in coordination with Emory Department of Emergency Medicine and DeKalb County 9-1-1 Call Center / DeKalb County Fire Rescue. January, 2020 – Present
 - v. “EMS Wall times amid the COVID pandemic.” Coordinated county-wide data analysis to present to the Emory Emergency Services Committee – Subcommittee on EMS Wall Times.
- b. Regional:
 - i. System-Wide Biosafety Transport Drill, Evaluator and Safety Officer, Emory University Midtown, Emory University Hospital, Children’s Hospital of Atlanta, May 31, 2019
 - ii. Grady Mass Casualty Response Drill Grady Hospital, Marcus Trauma Center, November 21, 2019
 - iii. Volunteered in Medical Tent at Annual Warped Tour Concert, Freehold, New Jersey; 2013-2017
 - iv. Volunteered in Medical Tent at Tough Mudder: Mud Run, Liberty State Park, New Jersey; 2014
 - v. Volunteered in Medical Tent at Staten Island Half Marathon, Staten Island, New York; 2016-2017
 - vi. Volunteered in Medical Tent at New York City Marathon, Manhattan,

- New York; 2016-2017
- vii. Volunteered in Medical Tent at Brooklyn Half Marathon, Coney Island, New York, 2017
- viii. Volunteered in Hurricane Irene and Hurricane Maria Relief, Puerto Rico, United States Territory; 2017
- ix. Volunteered New Jersey State Police T.E.A.M.S. (SWAT) Physician, New Jersey, 2016-2017
- x. Volunteered in Medical Station at NFL Super Bowl 53 - Superbowl Experience Exhibition, 2018-2019
- xi. Volunteered in Medical Station at NFL Super Bowl 53 – NFL Headquarters Convenience Clinic, 2018-2019
- xii. Volunteered in Medical Station at NFL Super Bowl 53 – Game Day Physician, 2019
- xiii. Volunteered in Medical Station at Publix Marathon, Atlanta, GA, 2019-2020, Atlanta, GA
- xiv. ACCESS Mobile SMS Community Outreach Program for DeKalb County during the COVID-19 Pandemic, October 2020 - Present
- xv. Federal Bureau of Investigation (FBI) First Aid and CPR Training Atlanta Office, January 28, 2020
- xvi. Volunteered in Medical Station at Peachtree Road Race, Atlanta, GA, July 3-4, 2021.

c. National:

- i. ACEP representative to the National Association of EMT Executive Board at the EMS World Expo, New Orleans, LA, October 13-14, 2019.
- ii. Selected ACEP EMS Committee representative to NAEMT EMS on the Hill Day, Washington, DC, March 2020. Attended virtually due to COVID-19.
- iii. Reviewer, Western Journal of Emergency Medicine (WestJEM), September 2019 – Present
- iv. Flight physician for Medway / Angel Med Flight with over 115 fixed-wing patient transport hours – May 2017 - Present

19. Community Outreach:

a. General:

- i. Siena College Outreach Program: Tutor 3rd grade English and Math Covenant Elementary School, Arbor Hill, Albany, New York; 2004-2006
- ii. Lead Organizer, Biannual American Red Cross Blood Drive at Siena College, Loudonville, New York; 2004, 2008
- iii. International Partnership for Service-Learning: Community Service Outreach, Pediatric Hospital and Humanitarian Pharmacy, Montpellier, France; 2006
- iv. Shade Tree Free Family Clinic (Medical student-run clinic) – Vanderbilt University, Nashville, Tennessee; 2007

b. Media Appearances:

- i. Fox / CBS New Jersey: Spokesperson and Project Representative, Hurricane Irene and Hurricane Maria Relief, Puerto Rico, United States

- Territory; 2017
- ii. Fox 5 Atlanta, Georgia: Appearance for reuniting a cardiac arrest survivor, EMS crews, and the bystander who initiated CPR. Region III Awards Banquet, May 22, 2019.
- iii. W.A.B.E. 90.1 FM. Atlanta, Georgia. "Bystanders Who Perform CPR Exponentially Increase Survival Rates – One Atlanta Man Knows." NPR Coverage on cardiac arrest save. August 2019.
- iv. St. George's University COVID Campaign. "SGU Alum Shares Experience on the Front Lines of COVID Pandemic" May 14, 2020
- v. "New Emory Telehealth EMS program aims to improve rural Georgia emergency care." EMORY Health Sciences News. Direct quote and mention of Project Directorship. April 2021.

20. Supervisory Teaching:

- a. Residency Program:
 - i. Emergency Department Attending, Emergency Medicine Residency Program, Newark Beth Israel Medical Center, Newark, New Jersey 2017-2018
 - ii. Emergency Department Attending, Emergency Medicine Residency Program, Emory University School of Medicine, Atlanta, Georgia 2018-Present
 - iii. Annual Cadaver Airway Lab instructor: 6/25/2019
 - vi. Emergency Medicine Clerkship Orientation, Ultrasound instructor: 9/30/2019
 - vii. Foundations Instructor (Oral board case review): 11/13/2018, 3/5/2019, 1/5/2021, 1/26/2021
- b. Medical Director at Air Life Georgia / Air Methods
 - i. Bimonthly regional lectures to 6 helicopter bases in metro Atlanta
 - ii. High-Performance Simulation (HPS) Workshops for Southeast region, instructor / examiner: 9/2018, 5/2019, 10/2019, 10/2020
 - iii. Annual Cadaver Lab instructor / examiner: 6/2019, 4/2021
- c. Thesis Defense Committee
 - i. Undergraduate Honors Thesis Candidate: Jacob Klause. Title: "The Role of EMS Providers' Response to Behavioral Emergencies in the Atlanta Area." April 2, 2021 via Zoom.

21. Invitations to National/International, Regional, and Institutional Conferences:

- a. National and International:
 - i. "Life After Medical School – Choosing a Career That Ensures Happiness, Well-Being, and . . . EMS." Emergency Medicine Interest Group Lecture Series, St. George's University School of Medicine, Grenada, West Indies, March 21, 2018
 - ii. "Clinical Biosafety Transport for Operators" (8-hour program), Emerging Infectious Disease Preparedness Workshop, Miami-Dade Fire Rescue, Miami, FL, April 11-13, 2019

- iii. "Clinical Biosafety Transport for Operators" (8-hour program), Emerging Infectious Disease Preparedness Workshop, Jacksonville Fire Rescue, Jacksonville, FL, May 8-11, 2019
- iv. "Clinical Biosafety Transport for Operators" (8-hour program), Emerging Infectious Disease Preparedness Workshop, Grady EMS / Angle 2 Crew, Atlanta, GA, May 22, 2019
- v. "Clinical Biosafety Transport for Operators" (8-hour program), Emerging Infectious Disease Preparedness Workshop, Jeff State Community College, Birmingham, AL, June 20, 2019
- vi. "Clinical Biosafety Transport for Operators" (8-hour program), Emerging Infectious Disease Preparedness Workshop, Perham Fire Rescue, Perham, MN, August 20-21, 2019
- vii. "Clinical Biosafety Transport for Operators" (8-hour program), Emerging Infectious Disease Preparedness Workshop, Yale-Newhaven Fire Rescue, Newhaven, CT, October 20, 2019
- viii. "Clinical Biosafety Transport for Operators" (8-hour program), Emerging Infectious Disease Preparedness Workshop, Northwestern University / Chicago Fire Rescue, Chicago, IL, November 18, 2019.
- ix. "Clinical Biosafety Transport for Operators" (8-hour program), Emerging Infectious Disease Preparedness Workshop, Orange County Fire Rescue, Orlando, FL, January 16, 2020.
- x. "Clinical Biosafety Transport for Operators" (8-hour program), Emerging Infectious Disease Preparedness Workshop, UTMB Houston, Houston TX, January 3rd and 4th, 2020.
- xi. "Clinical Biosafety Transport for Operators" (8-hour program), Emerging Infectious Disease Preparedness Workshop, Baptist Hospital EMS, Little Rock, AR, February 7, 2020.
- xii. "High Consequence Infectious Disease Workshop" (4-hour program), EMS Today National Conference, Tampa, FL, March 2, 2020.
- xiii. "Emerging Infectious Disease in EMS - Identify, Isolate, and Inform" North Carolina Disaster Symposium, Greenville, NC, March 4, 2020.
- xiv. "Operational Considerations for EMS Biosafety Transport" North Carolina Disaster Symposium, Greenville, NC, March 4, 2020.
- xv. "High Consequence Infectious Disease Workshop – JEMS Webcast" Recorded for Journal of EMS Webcast on April 7, 2020. URL: https://event.webcasts.com/starthere.jsp?ei=1295231&tp_key=f3c48f873b
- xvi. "EMS Considerations in the Transportation of COVID-19 Patients" Emerging Infectious Disease Preparedness Workshop in coordination with NETEC. Webcast on June 19, 2020.
- xvii. "EMS Operations – COVID-19 Roundup" – JEMS Webcast" Recorded for Journal of EMS Webcast on August 12, 2020. URL: https://event.webcasts.com/starthere.jsp?ei=1353276&tp_key=234323a5d6&sti=nsu
- xviii. "Got Masks? PPE Compliance and Fatigue in First Responder Realms." Presentation and panel expert for the National Emerging

Special Pathogens Education and Training Center (NETEC). October 2, 2020. https://unmc.zoom.us/webinar/register/WN_rnLrcjGqSV6-K41ZhM0GdQ

- xix. “COVID-19 Clinical Rounds in EMS: Airway Management - Challenges and Successes” Presentation and panel expert for HHS Assistant Secretary for Preparedness and Response (ASPR TRACIE) Clinical Rounds (virtual), October 19, 2020.
- xx. “COVID-19 Delta Variant and EMS – Latest Updates” JEMS Webcast Recorded September 24, 2021. URL: https://event.webcasts.com/viewer/event.jsp?ei=1496321&tp_key=2d11828860

b. Regional:

- i. “Medication Facilitated Airway Management” - Newark, New Jersey, Regional Difficult Airway Course, May 8, 2018
- ii. “The Last Ones to the Party” – A Comprehensive Literature Review Supporting the use of Prehospital Tranexamic Acid (TXA), Newark, New Jersey, Regional ALL-NJ EMS Conference, May 22, 2018
- iii. “Predicting the Difficult Airway” – Austell, Georgia, Regional EMS Week Conference at Wellstar Cobb Hospital, May 24, 2019
- iv. “Intra-aortic Balloon Pumps in HEMS – How to Avoid Personal Deflation When Faced With IABPs” – Regional Air Methods Clinical Conference via Zoom. May 21, 2020
- v. “Ventilation strategies in patients with COVID-19” – Regional Air Methods Clinical Conference via Zoom. August 20, 2020.
- vi. “Excited Delirium and the use of Ketamine for Chemical Restraint in EMS” – DeKalb County Public Safety Committee Meeting, October 14, 2020
- vii. “Local Deployment of the Emory Rural Tele-EMS Network: Introduction to Randolph, Quitman, and Clay Counties” – Via Zoom for Grady EMS Region 7 on March 1, 2021.
- viii. “Georgia DPH Coverdell Acute Stroke ECHO: EMS Advanced Treatment for Better Outcomes” March 8, 2021. Available online at: <https://bit.ly/39ltpiM>
- ix. “Point of Care Ultrasound in Helicopter EMS” for Air Methods Southeast Region during Monthly Clinical Conference via Zoom. March 18, 2021.
- x. “Hypertonic Saline vs. Mannitol in Helicopter EMS” for Air Methods Southeast Region during Monthly Clinical Conference via Zoom. May 13, 2021.

c. Institutional:

- i. “Prehospital Point of care Ultrasound!” Emory School of Medicine Department of Emergency Medicine Ultrasound Fellowship didactics and weekly conference. June 2, 2021.
- j. “Red Herring Cholecystitis Delays Diagnosis of Aortic Dissection” Newark Beth Israel, Newark, New Jersey, Hospital Wide Morbidity

and Mortality Conference, November 1, 2016

22. Abstract Presentations at National/International, Regional, and Institutional Conferences:

a. National and International:

- i. Zimmerman D*, Powell N, Hobson L, **Carr MJ**, Hinfey P. A retrospective review of the use of parenteral sedation for acute agitation or intoxication in the Emergency Department, an evaluation of safety. Poster at American College of Osteopathic Emergency Medicine Scientific Meeting, San Diego, California, October 2013
- ii. **Carr MJ***, Ariyaprakai N, Onogul B, Tagore AS, Wasserman EJ, Merlin MA. PREPP for Hypotension: PRE-hospital Push dose Pressors for hypotension. Poster at NAEMSP in San Diego, California, January 12, 2018
- iii. **Carr MJ***, Kosturko LN, Tanis J, Fagen L, McKechnie AJ, Merlin MA. Prehospital Administration of Tranexamic Acid (TXA) in Patients with Major Hemorrhage. Poster and Oral Presentation at NAEMSP in Austin, Texas, January 10, 2019
- iv. **Carr MJ**, Bauter R, Shepard P, Robbins V, Cappuccia B, McKechnie AJ, Merlin MA. Trends in Utilization of a Statewide EMS System with Prediction Models of Future Use. Poster and Oral Presentation at NAEMSP in Austin, Texas, January 11, 2019

b. Institutional:

- i. Naraine R, Gaynor P, **Carr MJ***, Baldwin A. Mimivirus Diversity in Grenada's Aquatic Environs. Oral presentation and Poster at St. George's University School of Medicine Research Day.

23. Research Focus:

My research aims to address disparities in access to healthcare and medical outcomes for rural communities by driving telehealth expansion in EMS, advancing evidence-based coordinated care, and by leveraging relationships with academic, commercial, and public health partners. Specifically, I focus on delivering connected technology to underserved areas in an effort to enhance access to high quality specialty care.

24. Grant Support:

a. Active Support:

a. Federally Funded:

- i. Co-investigator, National Emerging Special Pathogens Training and Education Center (NETEC) Grant, \$15,000,000; September 2020 – Present
- ii. Co-investigator, COVID-19 Training and Education Grant. Subaward from Nova Southeastern University, Florida; May 2020 – Present.

- iii. Principal Investigator / Project Director, *Emory Rural Tele-EMS (ER-TEMS): Coordinating Care Between Rural EMS, Rural Hospitals, and a Comprehensive Academic Health System Using an Emergency Provider Telemedicine Network*, Health Resources and Services Administration Grant 20-036. \$1,200,000. September 2020-Present
- b. Previous Support:
 - i. Co-investigator, Ebola Biosafety and Infectious Disease Response Training, Worker Trainer Program, National Institute of Environmental Health Sciences (NIEHS), \$1,125,000; March 2019 – May 2020.

25. Bibliography:

- a. Published and Accepted Research Articles (clinical, basic science, other) in Refereed Journals:
 - i. Sterne-Marr R, Leahey PA, Bresee JE, Dickson HM, Ho W, Ragusa MJ, Donnelly RM, Amie SM, Krywy JA, Brookins ED, Orakwue SC, **Carr MJ**, Koh KY (2009) GRK2 Activation by Receptors: Role of the Kinase Large Lobe and Carboxyl-Terminal Tail. *Biochemistry*. 48: pp 4285-4293
 - ii. **Carr MJ**, O'Shea JT, Hinfey PB (2016) Identification of the STEMI-Equivalent de Winter ECG Pattern Following Ventricular Fibrillation Cardiac Arrest: A Case Report. *Journal of Emergency Medicine*. 50(6): pp 875-880
 - iii. **Carr MJ**, Mell HK, Weingart SD, Dicorpo J, Merlin MA. The Case for TXA: An interdisciplinary literature review. *Journal of Emergency Medical Services*. January 2018: pp 46-62.
 - iv. **Carr MJ**, Bauter R, Shepard P, Robbins V, Cappuccia B, McKechnie AJ, Merlin MA. Temporal Trends and Future Predictions of Regional EMS System Utilization Using Statistical Modeling. *Prehospital Disaster Medicine*. January 2020.
 - v. Romero C, Sharter S, **Carr MJ**. Reversal of Alteplase (tPA) with Tranexamic Acid (TXA) After Spontaneous Pericardial Tamponade in a Patient Presenting with Acute Stroke Symptoms: A Case Report. *WestJEM CPC-EM*. 4(1). February 2020.
 - vi. Collins EC, Carr MJ, Kim JS, Lewis J, Maleque N, Desai K, Chen L, Sevransky J, Gaddh M, Rouphael N, Hubbard J, Pendley AM. Immune thrombocytopenia in 2 healthy young women after the Pfizer-BioNTech BNT16B2b2 messenger RNA coronavirus disease 2019 vaccination. *JACEP Open*. 2(e12531). July 2021
- b. Manuscripts Submitted:
 - i. Holcomb J, **Carr MJ**, Hohbein J, Merlin MA. Out of Hospital Fluid Resuscitation in Hemorrhagic Shock: The Case for Whole Blood. (Submitted 02/2021).
 - ii. Ross M, Smith MA, Hughes G, **Carr MJ**, Terry N, Smith K, Harlin TJ, Esper G. COVID-19: Telemedicine Program Development and

Deployment in the Entire Spectrum of Acute Care Medicine.
(Submitted 03/2021).

- c. Book Chapters
 - i. “EMERGENCY MEDICAL SERVICES” in *Dr. Carol Rivers’: Preparing for the Written Board Exam in Emergency Medicine – 10th Edition*. In press. Published January 2021.
 - ii. “EMTALA and Obligations of Sending and Receiving Physicians” in *CorePendium EMS Textbook – 1st Edition*. EM:RAP Online Textbook. Expected publication: Spring 2021.
 - iii. “Leveraging an internal innovation center, Health DesignED: the Emory Acute Care Design and Innovation Center to tackle the special technical needs of the Emory Rural Tele-EMS (ER-TEMS)” in *Healthcare Information Technology for Cardiovascular Medicine: Chapter 2*. Springer Publication. Expected: Spring 2021.
- d. Published Abstracts:
 - i. **Carr MJ***, Ariyaprakai N, Onogul B, Tagore AS, Wasserman EJ, Merlin MA. PREPP for Hypotension: PRE-hospital Push dose Pressors for hypotension. (2018) Abstracts for the 2018 NAEMSP Scientific Assembly, Prehospital Emergency Care, 22:1, 101-150
 - ii. **Carr MJ***, Kosturko LN, Tanis J, Fagen L, McKechnie AJ, Merlin MA. Prehospital Administration of Tranexamic Acid (TXA) in Patients with Major Hemorrhage. (2019) Abstracts for the 2019 NAEMSP Scientific Assembly, Prehospital Emergency Care, 22:1, 101-150
 - iii. **Carr MJ**, Bauter R, Shepard P, Robbins V, Cappuccia B, McKechnie AJ, Merlin MA. Trends in Utilization of a Statewide EMS System with Prediction Models of Future Use. (2019) Abstracts for the 2019 NAEMSP Scientific Assembly, Prehospital Emergency Care, 22:1, 101-150
- e. Other Publications:
 - i. **Carr MJ**. Health and Happiness: Physiological Effects of Stress and Stress Relief on the Immune System. Honors Thesis, Siena College Publication. Siena College, Loudonville, New York. 2008. 45p.
 - ii. Bachenheimer B, Merlin MA, **Carr MJ**. MD-1: Inside New Jersey’s Physician Response Program. EMS World. Published Online: June 19, 2018 at: <https://www.emsworld.com/article/220666/md-1-inside-new-jerseys-physician-response-program>

26. Contributions Not Otherwise Noted:

- a. Public Comment Contribution: Health Resources and Services Administration (HRSA), Office for the Advancement of Telehealth Outcome Measures, OMB No. 0915–0311— Revision
 - a. Recommendations to expand current performance improvement measures (PIMs) to include EMS-specific metrics were submitted to HRSA. Twelve new EMS-specific measures were presented

with hopes to improve performance monitoring of HRSA-funded tele-EMS projects. Measures were accepted by HRSA with expectations to include them in the next PIMS update.

- b. Coordination of national clinical trial with Air Methods: Resuscitative Ultrasound in Helicopter EMS (RUSHEMS) – Reducing time-to-intervention in treatment of tension pneumothorax and undifferentiated shock with point of care ultrasound in the aeromedical environment. July 2020 – Present.