

## **Katherine Mayer, MD**

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Current position: Assistant Professor, Emergency Medicine & Critical Care Medicine  
University of Colorado School of Medicine, Anschutz Medical Campus  
Email: katherine.mayer@cuanschutz.edu

### **Education**

- 1998 – 2002 Bachelor of Arts, Texas Christian University, Fort Worth, TX  
Biology major/Spanish minor, *Magna Cum Laude*
- 2002 – 2006 Doctor of Medicine, University of Kansas School of Medicine  
Kansas City, KS
- 2006 – 2009 Emergency Medicine Residency, Carolinas Medical Center  
Charlotte, NC
- 2015 – 2017 Critical Care Fellowship, Cooper University Hospital, Camden, NJ

### **Academic appointments**

- 2011 – 2013 Adjunct clinical faculty, Carolinas Medical Center, Department of  
Emergency Medicine, Charlotte, NC
- 2013 – 2015 Clinical Instructor, Carolinas Medical Center, Department of  
Emergency Medicine, Charlotte, NC
- 2017 – present Assistant Professor, University of Colorado School of Medicine,  
Anschutz Medical Campus, Department of Emergency Medicine  
and Division of Pulmonary Sciences and Critical Care Medicine,  
Aurora, CO

### **Hospital positions**

- 2009 – 2013 Attending physician, Gaston Memorial Hospital, Gastonia, NC  
Employed by Emergency Medicine Physicians, LLC.
- 2013 – 2015 Supervising physician of Advanced Clinical Practitioners,  
Carolinas Medical Center, Charlotte, NC
- 2016 – 2017 Chief Fellow, Department of Critical Care, Cooper University  
Hospital, Camden, NJ
- 2017 – 2018 Attending physician, Colorado Pulmonary Intensivists, Littleton  
Adventist Hospital, Littleton, CO
- 2021 – present Medical director, Medical ICU, University of Colorado Hospital,  
Anschutz Medical Campus, Aurora, CO

## **Honors and Awards**

- 2016 Gold Humanism Award recipient, for demonstrated excellence in clinical care, leadership, compassion, and dedication to service, selected by medical students at the Cooper Medical School of Rowan University, Camden, NJ
- 2017 Consultant of the Year, awarded to one consultant per year by the Department of Emergency Medicine, Cooper University Hospital
- 2017 Outstanding Fellow Teaching Award, awarded to one fellow per year by the Department of Internal Medicine, Cooper University Hospital
- 2017 Commencement speaker, selected by faculty, Cooper University Hospital fellowship and residency graduation ceremony
- 2019 Nominated for The Golden Stethoscope Award for Best Emergency Medicine Preceptor, University of Colorado School of Medicine
- 2021 Bedside Manner Award, awarded by medical staff, University of Colorado Hospital
- 2022 Master Teacher Award, awarded by Denver Health Residency in Emergency Medicine

## **Membership in professional organizations**

- 2006 – present American College of Emergency Physicians
- 2008 – present Society of Academic Emergency Medicine
- 2009 – 2013 Gaston County Medical Society
- 2009 – 2015 North Carolina Medical Society
- 2013 – present ACEP Critical Care Medicine Section
- 2015 – present Society of Critical Care Medicine

## **Major Committee and Service Responsibilities**

### **Hospital Committees**

- 2018 – 2020 Faculty Senate, University of Colorado, Anschutz Medical Campus
- 2020 – 2021 Covid ICU Clinical Staffing Committee, University of Colorado, Anschutz Medical Campus
- 2020 – current MICU-ED Collaborative Working Group, University of Colorado, Anschutz Medical Campus
- 2021 – 2022 Covid Task Force, University of Colorado, Anschutz Medical Campus
- 2021 – current Critical Care Committee, University of Colorado, Anschutz Medical Campus
- 2022 – present Resuscitation Committee, University of Colorado, Anschutz Medical Campus

- 2022 – current CLABSI Steering Committee, University of Colorado, Anschutz Medical Campus
- 2022 – current ED-ICU Critical Care Transitions Workgroup, Anschutz Medical Campus

**Departmental Committees**

- 2018 – current Emergency Department Case Review Committee, second level reviewer, University of Colorado, Anschutz Medical Campus
- 2019 – current MICU Collaborative Case Review, physician chair, quality review conference for the medical ICU, University of Colorado, Anschutz Medical Campus
- 2021 – current MICU Prioritization Committee, University of Colorado, Anschutz Medical Campus

**University Service Responsibilities**

- 2018 – present Co-director Critical Care Journal Club, Denver Health Residency in Emergency Medicine, Denver, CO
- 2021 Administrative Regional Triagist, University of Colorado, Anschutz Medical Campus
- 2021 Interim Medical Director, Medical ICU, University of Colorado, Anschutz Medical Campus
- 2022 – present Medical Director, Medical ICU, University of Colorado, Anschutz Medical Campus

**National Service**

- 2021 – present Oral Board Examiner, American Board of Emergency Medicine

**Community Service / Volunteer Experience**

- 2008 – 2012 Salvation Army Women’s Shelter, clinic physician, Shelter Health Services, Charlotte, NC
- 2011 World Medical Mission volunteer physician, Galmi Hospital, Galmi, Niger
- 2012 Medical Clinic in Honduras, volunteer physician
- 2022 Speaker, Girl Scout Troup, Slavens Elementary School, Denver

**Licensure and Board Certification**

- 2006 – 2015 North Carolina medical license, currently inactive
- 2010 Board certification in emergency medicine via ABEM completed
- 2015 – 2017 New Jersey medical license, currently inactive
- 2017 – present Colorado medical license, active
- 2017 Board certification in critical care medicine via ABIM completed
- 2021 Board recertification in emergency medicine via ABEM completed

**Invited presentations**

### **Local presentations**

- 2016 Annals of Internal Medicine “On Being a Doctor” Story Slam presenter, The Cooper Foundation and Berkowitz Family Foundation program, Cooper Medical School of Rowan University
- 2019 Internal Medicine Case Conference, Department of Internal Medicine, University of Colorado Anschutz Medical Campus, Aurora, CO
- 2021 Ethics in Emergency Medicine, Ethics Grand Rounds, University of Colorado Anschutz Medical Campus, Aurora, CO

### **Regional presentations**

- 2014 Oct University of North Carolina School of Medicine, Annual Teaching Retreat, Charlotte Longitudinal Integrated Curriculum, guest presenter
- 2015 Apr AAMC – Southern Group on Educational Affairs Conference, demonstration: “Teaching Principles of Sepsis with Simulation in Medical Student Education.” University of North Carolina School of Medicine, Chapel Hill, NC
- 2015 Apr AAMC – Southern Group on Educational Affairs Conference, workshop presentation: “Enhancing Longitudinal Medical Student Education with Innovative Curriculum Using Ultrasound, Simulation, and Pulse Experiences.” University of North Carolina School of Medicine, Chapel Hill, NC
- 2015 Oct Workshop presenter, CLIC in Carolina conference: “Simulation, Ultrasound, and Pulse Experiences: An Innovative Approach to Longitudinal Medical Student Curriculum.” Asheville, NC
- 2018 & 2021 *Stem Cell Transplantation and the Critically Ill*. Critical Care Conference, Cooper University Hospital, Camden, NJ.

### **International presentations**

- 2019 Jan *Variceal Bleeding*. Guest lecturer, multi-disciplinary conference, Medica Superspecialty Hospital, Kolkata, India

### **Teaching record**

#### **Clinical and Bedside Teaching**

- 2013 – 2015 Supervision and bedside teaching of residents, Carolinas Medical Center, emergency department, *32 hours/week*
- 2013 – 2015 Co-director of Simulation Studies, Charlotte Longitudinal Integrated Curriculum, University of North Carolina School of Medicine, Carolinas Medical Center, *6 hours/week*
- 2014 – 2015 Co-director of the Introduction to Acute Care course, University of North Carolina School of Medicine Charlotte Campus, developed and facilitated full-day course for rising 3<sup>rd</sup> year medical students

for transition into clinical care, Carolinas Medical Center, Charlotte, NC

2015 – 2017 Instructor, Intern Central Line Course, Cooper University Hospital, Camden, NJ

2017 Instructor, Point-of-Care Ultrasound Course, Cooper University Hospital, Camden, NJ

2017 – present Supervision and bedside teaching of residents and medical students, University of Colorado Anschutz Medical Campus, emergency department and Medical-ICU, *8 hours/week*

2018 Critical Care and Procedures Bootcamp, faculty facilitator, University of Colorado School of Medicine, Anschutz Medical Campus

2018 Integrated Clinicians 3 Course, small-group facilitator, University of Colorado School of Medicine, Anschutz Medical Center

2018, 2021, 2022 Instructor, Acid-Base Case Studies, Denver Health Residency in Emergency Medicine core curriculum

2019 & 2021 Instructor, Variceal Bleeding, Denver Health Residency in Emergency Medicine core curriculum

2019 Instructor, Intimate Partner Violence, Denver Health Residency in Emergency Medicine core curriculum

2019 & 2021 Instructor, Troubleshooting Trachs, Denver Health Residency in Emergency Medicine core curriculum

2019 – present Instructor & Creator, Simulation Course: Emergency Cricothyrotomy, University of Colorado, Division of Pulmonary Sciences and Critical Care Medicine – course developed for pulmonary attendings and fellows working in the medical ICU.

2020 – present Instructor, The Difficult Airway Course, a national 3-day high-fidelity course on difficult airway management

2020 & 2022 Instructor / Case Creation - Sepsis Cases, Denver Health Residency in Emergency Medicine core curriculum

2020 Instructor, Pandemic Ethics, Denver Health Residency in Emergency Medicine core curriculum

2020 Instructor, Grieving and Bereavement (Ethics Series), Denver Health Residency in Emergency Medicine core curriculum

2020 – present Director, Emergency Medicine Critical Care elective for senior emergency medicine residents in the medical ICU

### **Mentorship**

2018 – 2021 Faculty advisor to Dr. Nick Kelly, graduated resident physician, Denver Health Emergency Medicine Residency Program

2018 – 2020 Faculty mentor to Dr. Michael Dittmar, current PGY-3 resident physician at USC Keck School of Medicine, residency in internal medicine

- 2018 – 2022 Foundations of Doctoring, faculty advisor to medical student Victor Quach, current 4th year medical student at the University of Colorado School of Medicine
- 2019 – present Faculty advisor to Dr. Lauren Becker, graduated resident physician, Denver Health Emergency Medicine Residency Program, current critical care fellow at University of Maryland
- 2021 – present Faculty advisor to Dr. Gabe Siegel, current PGY-3 resident physician, Denver Health Emergency Medicine Residency Program
- 2022 – present Faculty advisor to Dr. Kristyn McLeod, current PGY-3 resident physician, Denver Health Emergency Medicine Residency Program

### **Lectures**

- 2013 *Anaphylaxis – An Overview*, Emergency Medicine Conference, Carolinas Medicine Center
- 2015 *Iatrogenic Vascular Injuries*, Critical Care Conference, Cooper University Hospital
- 2016 *Shock – Intern Survival Series*: Cooper University Hospital
- 2017 *Pulmonary Hypertension*, Critical Care Grand Rounds, Cooper University Hospital
- 2018 *Delirium in the Critically Ill*, Colorado Pulmonary Intensivists, Littleton Adventist Hospital, Littleton, CO
- 2019 *Variceal Bleeding*. Multi-disciplinary conference, Medica Superspecialty Hospital, Kolkata, India
- 2018 & 2021 *Stem Cell Transplantation and the Critically Ill*. Critical Care Conference, Cooper University Hospital, Camden, NJ.
- 2019 & 2022 *Troubleshooting Trachs*, Emergency Medicine Conference, Denver Health, Denver, CO

### **Research Involvement**

- 2018 - 2020 Co-investigator, University of Colorado Anschutz Medical Campus, Crystalloid Liberal or Vasopressors Early Resuscitation in Sepsis, Phase II clinical trial, still in open enrollment phase. NCT03434028
- 2020 Co-investigator, University of Colorado Anschutz Medical Campus, A Novel Patient Decision Aid for Surrogate Decision Makers of Comatose Survivors of Cardiac Arrest, pilot study. NCT03908346
- 2020 - 2022 Principal investigator representing critical care medicine, University of Colorado Anschutz Medical Campus, Influence of Cooling Duration on Efficacy in Cardiac Arrest Patients, Phase II / III clinical trial, in open enrollment phase. NCT04217551

### **Journal Reviewer**

## **Bibliography**

### **Peer-Reviewed Journals**

1. Pearson D, Wares C, **Mayer K**, Runyon M, Studnek J, Ward S, Kraft K, Heffner A. Troponin Marker for Acute Coronary Occlusion and Patient Outcome Following Cardiac Arrest. *West J Emerg Med*. 2015; 16:1007– 13. doi:10.5811/westjem.2015.10.28346
2. **Mayer KA**, Trzeciak SW, Puri NK. Assessment of the Adequacy of Oxygen Delivery. *Curr Opin Crit Care*. 2016; 22: 437 - 443. doi:10.1097/MCC.0000000000000336
3. Pearson DA, **Mayer K**, Wares CM, Runyon MS, Studnek JR, Ward SL, Kraft KM, Heffner AC. Factors Associated with Delayed Cooling in Cardiac Arrest Patients. *Ther Hypothermia Temp Manag*. 2017; Jun 7(2): 81-87. doi: 10.1089/ther.2016.0006
4. Hoffman J, **Mayer K**. Destination Critical Care: A Road-Map for Academic Clinicians, Educators, and Mentors. *Academic Emergency Medicine Education and Training*. 2018; Nov. doi:10.1002/aet2.10308

### **Book Chapters**

1. **Mayer K**, Reyner K, Heffner A. A 51-year-old diabetic woman with vertigo. In: Weinstock MB, ed. *Bouncebacks! Critical Care*. Columbus, OH: Anadem Publishing; 2020.
2. Hayes B, **Mayer K**, Reyner K, Heffner A. A 50-year-old woman with flank pain. In: Weinstock MB ed. *Bouncebacks! Critical Care*. Columbus, OH: Anadem Publishing; 2020.

### **Other publications**

1. Zagona-Prizio, Caterina, Mann, Scott, **Mayer, Katherine**, Pascoe, Michael A., Maloney, James P., & Parsons, Brooke. (2020). Emergent Cricothyrotomy Training for Non-Surgeons (Version 1.0). Zenodo. <http://doi.org/10.5281/zenodo.4029816>
2. **Mayer K**. Annals Story Slam – Finding Cheeky. *Ann Intern Med*. 2017; Apr 4;166(7):SS1. doi: 10.7326/W17-0036.

### **Scientific Exhibits**

1. **Mayer K**, Schafermeyer R, Williams J. Short Educational Sessions for ED Providers can Increase Treatment Referral of Patients with High-Risk Alcohol Consumption, poster abstract presented at the SAEM Southeast Regional Meeting.

2. **Mayer K**, Pearson D, Heffner A, Studnek J, Wares C, Ward S, Kraft K, Runyon M. Timing of Paralytics Impacts “Door-to Cool” Time in Post-Cardiac Arrest Patients, oral abstract presented at 2014 SAEM national meeting.