Zachary Coburn, M.D.

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Summary

Board-certified Emergency Medicine physician with experience in clinical leadership, healthcare operations, and clinical technology. In addition to clinical practice, I work with healthcare technology companies and AI organizations on clinical AI evaluation, product strategy, clinical workflow, and real-world implementation. Experience includes multisite clinical AI implementation, early-stage digital health advising, and evaluation of large language models across clinical reasoning and medical workflows.

Healthcare Work Experience

- Wake Emergency Physicians, PA
  - Attending Emergency Medicine Physician (Raleigh, NC), 2026—Present
    - Practicing emergency physician across diverse acute-care settings in the Raleigh area, including a high-volume Level I Trauma Center.
- U.S. Acute Care Solutions
  - Medical Director, HCA Tysons Freestanding Emergency Department (Tysons, VA), 2024—2026
    - Directed a multidisciplinary group of 35 physicians and APPs, with responsibility for clinical operations, quality, patient experience, and strategic initiatives; partnered with hospital and health-system executive leadership.
    - Led multisite implementation of a clinical AI documentation platform, including vendor evaluation, workflow integration, product customization, and clinician adoption.
    - Designed and implemented a novel telehealth triage workflow leveraging remote physician capacity to improve emergency department throughput, including protocol development, stakeholder engagement, and pre/post-implementation analysis.
  - Associate Medical Director, HCA Reston Hospital Center (Reston, VA), 2024—2026
    - Level II Trauma Center and regional referral hospital; supported clinical operations, quality improvement, and patient experience initiatives.
    - Led implementation and management of a technology-enabled rapid patient follow-up program using automated patient outreach and physician-led service recovery.
  - Assistant Medical Director, HCA StoneSprings Hospital (Dulles, VA), 2023—2024
    - Supported clinical operations, quality improvement, patient experience, and EMS/community engagement while collaborating with hospital leadership on new service lines.
    - Professional Practice Executive Committee member; provided clinical guidance in peer review of complex medical cases, including development of physician remediation plans.
  - Physician Scholars Program, 2023—2024
    - Selected for a longitudinal physician leadership development program focused on healthcare operations, communication, financial performance, physician engagement, and organizational leadership.
    - Capstone project: developed and implemented an emergency department discharge checklist for patients with opioid use disorder or overdose, including post-implementation analysis of key care metrics.
  - Attending Emergency Medicine Physician, 2021—2026
- Clinical AI & Digital Health Advisor / Independent Physician Consultant, 2021—Present
  - Advise early-stage healthcare technology companies on clinical strategy, product development, workflow integration, physician adoption, patient safety, and real-world implementation; experience includes medical information synthesis, AI-assisted imaging, and technology-enabled patient assessment.

  - Partner with AI organizations as a physician domain expert to design, evaluate, and benchmark large language models across clinical reasoning, differential diagnosis, diagnostic accuracy, patient safety, and medical workflows.
- Volunteer Medical Classifier, U.S. Rowing Association, 2023—Present
  - Serve on panel as a trained Medical Classifier to help determine prospective para/adaptive athlete eligibility and classification level competing at regional and national levels of U.S. Rowing.
- Emergency Medicine Resident Physician, Albany Medical Center (Albany, NY), 2018—2021
  - High-volume Level I Trauma Center and tertiary regional referral center serving a broad catchment area across Upstate New York.
  - Resident Physician Member of Albany Medical Center Patient Care Steering Committee

Education

- Albany Medical Center (Albany, NY), 2018—2021
  - Residency in Emergency Medicine
- Albany Medical College (Albany, NY), 2014—2018
  - Doctor of Medicine
- University of Michigan (Ann Arbor, MI), 2010—2014
  - Bachelor of Science in Anthropology; Minor in Medical Anthropology
  - Honors Program: Literature, Science and Arts
  - Varsity member of Men's Rowing Team

Publications and Presentations

- Caire Health. *Using an artificial intelligence software improves emergency medicine physician intracranial hemorrhage detection to radiologist levels.* Emergency Medicine Journal (British Medical Journal). January 2024.
- Albany Medical Center, Dept. of Emergency Medicine. *Emergency Department Volume during the COVID-19 Pandemic.* Journal of Academic Emergency Medicine. May 2021;28(Suppl 1):S255.
- *Weakness, Dizziness, Confusion Oh My! Pre-hospital and E.D. Management of Acute CVA*. HCA Regional EMS Lecture series. June 2025
- *Behavioral Health Emergencies and Management of Acute Psychosis*. HCA Regional EMS lecture series. October and December 2023.
- *Emergency Department Volumes during the COVID-19 Pandemic*. Society for Academic Emergency Medicine Annual Meeting. May 2021.
- *Chest Pain Pearls*. Regional Emergency Medicine Organization (REMO), EMS lecture series. September 2020.
- *Asthma and Anaphylaxis*. Regional Emergency Medicine Organization (REMO), EMS lecture series. April 2020.
- *Do No Harm; Risks of Overtreatment and Overadmission*. Albany Medical Center. October 2020.

Certifications/Licenses

- Board Certification in Emergency Medicine (American Board of Emergency Medicine)
- Six Sigma Black Belt Certification
- Institute for Healthcare Improvement Certificate in Quality and Safety
- Certificate in Digital Health by Imperial College of London
- Certificate in Value-Based Care by the University of Houston
- Specialization Certificate in Patient Safety by The Johns Hopkins University
- Certificate in Google Project Management: by Google on Coursera