Stanford



Kenton Anderson

Clinical Professor, Emergency Medicine

CLINICAL OFFICE (PRIMARY)

- **Stanford Emergency Department**

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Bio

BIO

Dr. Kenton Anderson is an Advanced Emergency Medicine Ultrasound (AEMUS) fellowship-trained Emergency Physician and Associate Professor in the Stanford University Department of Emergency Medicine. In addition to his clinical role, he is the Co-Director of the AEMUS fellowship at Stanford University where his research focus is the use of echocardiography to improve cardiopulmonary resuscitation (CPR).

CLINICAL FOCUS

- Emergency Medicine

ACADEMIC APPOINTMENTS

- Clinical Professor, Emergency Medicine

ADMINISTRATIVE APPOINTMENTS

- Director, Emergency Ultrasound Fellowship, Department of Emergency Medicine, Stanford University School of Medicine, (2017- present)
- Director, Emergency Ultrasound Research, Department of Emergency Medicine, Stanford University School of Medicine, (2016- present)
- Assistant Program Director for Research, Department of Emergency Medicine San Antonio Uniformed Health Education Consortium, (2013-2014)
- Member, Institutional Review Board, San Antonio Military Medical Center, (2013-2014)
- Associate Medical Director, Department of Emergency Medicine San Antonio Military Medical Center, (2012-2014)
- Co-Director, Emergency Ultrasound, Department of Emergency Medicine San Antonio Uniformed Services Health Education Consortium, (2011-2014)

HONORS AND AWARDS

- Highly Cited Research - One of 5 highest cited papers published, Elsevier - American Journal of Emergency Medicine (2016)
- Research Award Nominee, American Academy of Emergency Ultrasound (2016)
- Outstanding Reviewer, American Journal of Emergency Medicine (2016)
- Patient Service Champion, Duke University Medical Center (2009)

- Leadership and Service Award, Society of Orange County Emergency Physiicians (2006)
- Honor Society Member, Phi Beta Kappa (2000)
- Summa Cum Laude, University of California, Davis (2000)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Councilor, American College of Emergency Physicians (2020 - 2021)
- Alternate Councilor, American College of Emergency Physicians (2019 - 2020)
- Research Officer, Academy of Emergency Ultrasound, Society for Academic Emergency Medicine (2016 - 2018)
- Reviewer, Clinical Ultrasound Accreditation Program, American College of Emergency Physicians (2015 - present)
- Secretary, Academy of Emergency Ultrasound, Society for Academic Emergency Medicine (2013 - 2015)
- Member, American Heart Association (2013 - present)
- Fellow, American College of Emergency Physicians (2011 - present)

PROFESSIONAL EDUCATION

- Board Certification: Focused Practice in Advanced Emergency Medicine Ultrasonography, American Board of Emergency Medicine (2022)
- Board Certification: Emergency Medicine, American Board of Emergency Medicine (2011)
- Fellowship, Hospital of the University of Pennsylvania , Emergency Ultrasound (2010)
- Residency, Duke University Medical Center , Emergency Medicine (2009)
- Medical Education, University of California, Irvine School of Medicine , Medical Doctor (M.D.) (2006)
- Undergraduate Education, University of California, Davis , Neurobiology, Physiology, and Behavior (B.S.) (2000)

COMMUNITY AND INTERNATIONAL WORK

- Texas Two Step: How to Save a Life Campaign, Multiple Texas Communities
- New Horizons, Haiti & Suriname

LINKS

- Department of Emergency Medicine: http://emed.stanford.edu/
- Section of Emergency Ultrasound: http://emed.stanford.edu/specialized-programs/ultrasound.html
- Advanced Emergency Medicine Ultrasound Fellowship: https://emed.stanford.edu/education/fellowships/ultrasound.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Cardiopulmonary Resuscitation

Cardiac Arrest

Emergency Ultrasound

Teaching

COURSES

2026-27

- Basic Cardiac Life Support for Healthcare Professionals: EMED 201 (Aut)
- Re-Certification for Basic Cardiac Life Support for Healthcare Professionals: EMED 201A (Aut, Win, Spr, Sum)

2025-26

- Basic Cardiac Life Support for Healthcare Professionals: EMED 201 (Aut)
- Re-Certification for Basic Cardiac Life Support for Healthcare Professionals: EMED 201A (Aut, Win, Spr, Sum)

2024-25

- Basic Cardiac Life Support for Healthcare Professionals: EMED 201 (Aut)
- Re-Certification for Basic Cardiac Life Support for Healthcare Professionals: EMED 201A (Aut, Win, Spr, Sum)

2023-24

- Basic Cardiac Life Support for Healthcare Professionals: EMED 201 (Aut)
- Re-Certification for Basic Cardiac Life Support for Healthcare Professionals: EMED 201A (Aut, Win, Spr, Sum)

Publications

PUBLICATIONS

- **Transesophageal Echocardiography in the Emergency Department: Development of a Validated Checklist for Training.** *AEM education and training*
  Anderson, K. L., Batchelor, T. J., Wang, X., Pokrajac, N., Teran, F., Aguayo-Romero, F., Nagdev, A., Reardon, R., Chinn, E., Ockerse, P., Andrus, P., Vitto, M. J., Burns, et al
  2026; 10 (4): e70229
- **A Woman With Abdominal Pain.** *Annals of emergency medicine*
  Nierenberg, L., Anderson, K. L., Batchelor, T. J.
  2026; 88 (1): 99-100
- **PURA-ECHO: Analysis of the evolution of Ultrasound utilization in austere health care settings in Costa Rica's Geographic Empanelment Model.** *BMC emergency medicine*
  Abarca, S. E., Aguilar, M., Padilla, N., Batchelor, T., Anderson, K. L., Ashenburg, N.
  2026
- **Cardiopulmonary Resuscitation.** *Critical care clinics*
  Cha, S., Kelly, C., Anderson, K. L.
  2025; 41 (3): 481-495
- **Development and Implementation of a Multicenter Registry for Resuscitation-Focused Transesophageal Echocardiography.** *Annals of emergency medicine*
  Teran, F., Owyang, C. G., Wray, T. C., Hipskind, J. E., Lessard, J., Bédard Michel, W., Lanthier, C., Nazerian, P., de Villa, E., Nogueira, J., Doynow, D., Clinton, M., Myslik, et al
  2024
- **Differences in Out-of-Hospital Cardiac Arrest Outcomes Among Five Racial/Ethnic Groups.** *Prehospital emergency care*
  Anderson, K. L., Saxena, M. R., Matheson, L. W., Gautreau, M., Brown, J. F., Ishoda, L., Kohn, M. A.
  2024: 1-12
- **A woman with a headache and vision changes.** *Journal of the American College of Emergency Physicians open*
  Batchelor, T. J., Anderson, K. L.
  2024; 5 (1): e13109
- **Adult male with constant pleuritic chest pain.** *Journal of the American College of Emergency Physicians open*
  Dowling, S., Li, W., Zuniga, Z. R., Anderson, K. L.
  2024; 5 (1): e13074
- **Young Woman With Recurrent Vision Loss** *Annals of Emergency Medicine*
  Nishath, T., Anderson, K. L., Batchelor, T. J.
  2024; 83 (6): 611-612
- **A cadaveric model for transesophageal echocardiography transducer placement training: A pilot study.** *World journal of emergency medicine*
  Horton, R. W., Niknam, K. R., Lobo, V., Pade, K. H., Jones, D., Anderson, K. L.

1800; 13 (1): 18-22

- **Utilization of Point-of-care Echocardiography in Cardiac Arrest: A Cross-sectional Pilot Study.** *The western journal of emergency medicine*
  Wolfe, Y., Duanmu, Y., Lobo, V., Kohn, M. A., Anderson, K. L.
  2021; 22 (4): 803-809
- **A randomized controlled trial of simulation-based mastery learning to teach the extended focused assessment with sonography in trauma.** *AEM education and training*
  Smith, S., Lobo, V., Anderson, K. L., Gisondi, M. A., Sebok-Syer, S. S., Duanmu, Y.
  2021; 5 (3): e10606
- **Utilization of Point-of-care Echocardiography in Cardiac Arrest: A Cross-sectional Pilot Study** *WESTERN JOURNAL OF EMERGENCY MEDICINE*
  Wolfe, Y., Duanmu, Y., Lobo, V., Kohn, M. A., Anderson, K. L.
  2021; 22 (4): 803-809
- **Effects of Left Ventricular Versus Traditional Chest Compressions in a Traumatic Pulseless Electrical Activity Model.** *Military medicine*
  Anderson, K. L., Evans, J. C., Castaneda, M. G., Boudreau, S. M., Maddry, J. K., Morgan, J. D.
  2021
- **Enterocutaneous Fistula and Abscess Diagnosed with Point-of-care Ultrasound.** *Clinical practice and cases in emergency medicine*
  McCuskee, S., Anderson, K. L.
  2021; 5 (4): 470-472
- **The Utility of Color Doppler to Confirm Endotracheal Tube Placement: A Pilot Study.** *The western journal of emergency medicine*
  Gildea, T. H., Anderson, K. L., Niknam, K. R., Gharahbaghian, L., Williams, S. R., Angelotti, T., Auerbach, P. S., Lobo, V.
  2020; 21 (4): 871–76
- **The Effect of Chest Compression Location and Occlusion of the Aorta in a Traumatic Arrest Model.** *The Journal of surgical research*
  Anderson, K. L., Morgan, J. D., Castaneda, M. G., Boudreau, S. M., Arana, A. A., Kohn, M. A., Bebarta, V. S.
  2020; 254: 64–74
- **The Effect of Chest Compression Location and Aortic Perfusion in a Traumatic Arrest Model.** *The Journal of surgical research*
  Barringer, B. J., Castaneda, M. G., Rall, J. n., Maddry, J. K., Anderson, K. L.
  2020; 258: 88–99
- **The Efficacy of a Brief Educational Training Session in Point-of-Care Pediatric Hip Ultrasound.** *Pediatric emergency care*
  Pade, K. H., Niknam, K. R., Lobo, V. E., Anderson, K. L.
  2020
- **The Efficacy of Left Ventricular versus Traditional Chest Compressions During Selective Aortic Arch Perfusion to Treat Traumatic Cardiopulmonary Arrest in a Swine Model**
  Barringer, B., Castaneda, M., Rall, J., Anderson, K.
  LIPPINCOTT WILLIAMS & WILKINS.2019
- **Cardiac massage for trauma patients in the battlefield: An assessment for survivors** *RESUSCITATION*
  Anderson, K. L., Mora, A. G., Bloom, A. D., Maddry, J. K., Bebarta, V. S.
  2019; 138: 20–27
- **A Traumatic Pulseless Electrical Activity Model: Mortality Increases With Hypovolemia Time.** *The Journal of surgical research*
  Evans, J. C., Morgan, J. D., Castaneda, M. G., Boudreau, S. M., Maddry, J. K., Anderson, K. L.
  2019; 243: 301–8
- **A Brief Cadaver Training Session Is Feasible for Training Novice Users on Transesophageal Echocardiography Transducer Insertion**
  Horton, R., Niknam, K., Lobo, Pade, K. H., Jones, D., Anderson, K. L.
  MOSBY-ELSEVIER.2018: S85-S86
- **Left ventricular compressions improve return of spontaneous circulation and hemodynamics in a swine model of traumatic cardiopulmonary arrest** *JOURNAL OF TRAUMA AND ACUTE CARE SURGERY*
  Anderson, K. L., Fiala, K. C., Castaneda, M. G., Boudreau, S. M., Arana, A. A., Bebarta, V. S.
  2018; 85 (2): 303-310

- **Asymptomatic ST elevation myocardial infarction** *HEART & LUNG*
  Anderson, K. L., Shah, N. A., Gallegos, M., Chiang, I.
  2018; 47 (4): 363–65
- **Left Ventricular Compressions Improve Return of Spontaneous Circulation and Hemodynamics in a Swine Model of Traumatic Cardiopulmonary Arrest.** *The journal of trauma and acute care surgery*
  Anderson, K. L., Fiala, K. C., Castaneda, M. G., Boudreau, S. M., Arana, A. A., Bebarta, V. S.
  2018
- **Airway ultrasound for the confirmation of endotracheal tube placement in cadavers by military flight medic trainees - A pilot study.** *The American journal of emergency medicine*
  Hanlin, E. R., Zelenak, J. n., Barakat, M. n., Anderson, K. L.
  2018
- **A 49-year-old man who presents with abdominal pain** *Visual Journal of Emergency Medicine*
  Anderson, K. L., Maciey, S. M.
  2018; 11: 74-75
- **Adult Male With Scrotal Swelling and Pain.** *Annals of emergency medicine*
  Molina, S. L., Anderson, K. L.
  2018; 71 (6): e113–e114
- **Increased Hypovolemia Time Increases Mortality in a Swine Model of Traumatic Pulseless Electrical Activity Cardiac Arrest - A Pilot Study**
  Evans, J., Morgan, J. D., Castaneda, M. G., Boudreau, S. M., Canellis, K., Arana, A. A., Maddry, J. K., Evans, G. H., Anderson, K. L.
  LIPPINCOTT WILLIAMS & WILKINS.2017
- **Point-of-Care Ultrasound in Austere Environments A Complete Review of Its Utilization, Pitfalls, and Technique for Common Applications in Austere Settings** *EMERGENCY MEDICINE CLINICS OF NORTH AMERICA*
  Gharahbaghian, L., Anderson, K. L., Lobo, V., Huang, R., Poffenberger, C. M., Nguyen, D.
  2017; 35 (2): 409-?
- **Left Ventricular Compressions Improve Hemodynamics in a Swine Model of Out-of-Hospital Cardiac Arrest** *PREHOSPITAL EMERGENCY CARE*
  Anderson, K. L., Castaneda, M. G., Boudreau, S. M., Sharon, D. J., Bebarta, V. S.
  2017; 21 (2): 272-280
- **Gastric perforation causing severe abdominal pain** *Visual Journal of Emergency Medicine*
  Migliaccio, D., Anderson, K. L.
  2017; 9: 65-66
- **Large-scale Multi-community Targeted CPR Education Improves CPR Knowledge and Confidence**
  Anderson, K. L., Olesky, K., Salerno, N., Nadeem, S., Valentine, J., Mehkri, F., Hicks, M., Andrabi, S., Fisher, A. S., Laufman, L. E.
  LIPPINCOTT WILLIAMS & WILKINS.2016
- **The ability of renal ultrasound and ureteral jet evaluation to predict 30-day outcomes in patients with suspected nephrolithiasis** *AMERICAN JOURNAL OF EMERGENCY MEDICINE*
  Fields, J. M., Fischer, J. I., Anderson, K. L., Mangili, A., Panebianco, N. L., Dean, A. J.
  2015; 33 (10): 1402-1406
- **The utility of transvaginal ultrasound in the ED evaluation of complications of first trimester pregnancy** *AMERICAN JOURNAL OF EMERGENCY MEDICINE*
  Panebianco, N. L., Shofer, F., Fields, J. M., Anderson, K., Mangili, A., Matsuura, A. C., Dean, A. J.
  2015; 33 (6): 743-748
- **Portable Ultrasound in Disaster and Emergency Settings** *Global Point of Care: Strategies for Disasters, Emergencies and Public Health Resilience*
  Anderson, K. L., Dean, A. J.
  AACC Press.2015
- **Ultrasound Guided Chest Compressions Over the Left Ventricle During Cardiopulmonary Resuscitation Increases Coronary Perfusion Pressure and Return of Spontaneous Circulation in a Swine Model of Traumatic Cardiac Arrest**

Anderson, K. L., Castaneda, M. G., Boudreau, S. M., Cox, K., Bebarta, V. S.
LIPPINCOTT WILLIAMS & WILKINS.2014

- **Point-of-care ultrasound diagnoses acute decompensated heart failure in the ED regardless of examination findings** *AMERICAN JOURNAL OF EMERGENCY MEDICINE*
  Anderson, K. L., Jenq, K. Y., Fields, J. M., Panebianco, N. L., Dean, A. J.
  2014; 32 (4): 385-388

- **Quantifying B-Lines on Lung Sonography: Insufficient Evidence as an Objective, Constructive, and Educational Tool Reply** *JOURNAL OF ULTRASOUND IN MEDICINE*
  Anderson, K. L., Fields, J. M., Panebianco, N. L., Jenq, K., Marin, J., Dean, A. J.
  2014; 33 (2): 363-365

- **Ultrasound Guided Chest Compressions Over the Left Ventricle During Cardiopulmonary Resuscitation Increases Coronary Perfusion Pressure and Return of Spontaneous Circulation in a Swine Model of Cardiac Arrest**
  Anderson, K. L., Castaneda, M. G., Boudreau, S. M., Vargas, T. E., Bebarta, V. S.
  LIPPINCOTT WILLIAMS & WILKINS.2013

- **Diagnosing heart failure among acutely dyspneic patients with cardiac, inferior vena cava, and lung ultrasonography** *AMERICAN JOURNAL OF EMERGENCY MEDICINE*
  Anderson, K. L., Jenq, K. Y., Fields, J. M., Panebianco, N. L., Dean, A. J.
  2013; 31 (8): 1208-1214

- **Inter-Rater Reliability of Quantifying Pleural B-Lines Using Multiple Counting Methods** *JOURNAL OF ULTRASOUND IN MEDICINE*
  Anderson, K. L., Fields, J. M., Panebianco, N. L., Jenq, K. Y., Marin, J., Dean, A. J.
  2013; 32 (1): 115-120

- **Cardiac Evaluation for Structural Abnormalities May Not Be Required in Patients Presenting With Syncope and a Normal ECG Result in an Observation Unit Setting** *ANNALS OF EMERGENCY MEDICINE*
  Anderson, K. L., Limkakeng, A., Damuth, E., Chandra, A.
  2012; 60 (4): 478-484

- **The effect of vessel depth, diameter, and location on ultrasound-guided peripheral intravenous catheter longevity** *AMERICAN JOURNAL OF EMERGENCY MEDICINE*
  Fields, J. M., Dean, A. J., Todman, R. W., Au, A. K., Anderson, K. L., Ku, B. S., Pines, J. M., Panebianco, N. L.
  2012; 30 (7): 1134-1140

- **TRAFFIC LAW KNOWLEDGE DISPARITY BETWEEN HISPANICS AND NON-HISPANIC WHITES IN CALIFORNIA** *JOURNAL OF EMERGENCY MEDICINE*
  Anderson, K. L., Patel, C. V., Vaca, F., Anderson, C. L., Mendoza, R., Barton, R. L., Lekawa, M. E., Hoonpongsimanont, W., Lotfipour, S.
  2011; 40 (6): 687-695

- **Foreign Bodies in the Gastrointestinal Tract and Anorectal Emergencies** *EMERGENCY MEDICINE CLINICS OF NORTH AMERICA*
  Anderson, K. L., Dean, A. J.
  2011; 29 (2): 369-?

- **Pleural and Lung Ultrasound** *Encyclopedia of Intensive Care Medicine*
  Anderson, K. L., Dean, A. J.
  Springer.2011; 1st Edition

- **Soft Tissue and Extremity Ultrasound** *Handbook of Critical Care and Emergency Ultrasound*
  Lopez, F., Anderson, K. L.
  McGraw Hill.2011

- **Topic A14. Fracture Assessment. In: American College of Emergency Physicians Emergency Ultrasound Fellowship Guidelines; Appendix: Core Content of Clinical Ultrasonography Fellowship Training.**
  Anderson, K. L.
  American College of Emergency Physicians.
  2011

- **Topic A14. Fracture Assessment. In: American College of Emergency Physicians Emergency Ultrasound Fellowship Guidelines; Appendix: Core Content of Clinical Ultrasonography Fellowship Training.**
  Anderson, K. L.
  American College of Emergency Physicians.
  2011

- **Early Failure of Ultrasonography-Guided Peripheral Intravenous Catheters In the Emergency Department: It's Not Just About Getting the IV - It's About Keeping It**
  Fields, J. M., Todman, R. W., Anderson, K. L., Panebianco, N. L., Dean, A. J.
  MOSBY-ELSEVIER.2010: S75-S76

- **Test Characteristics of Various Techniques of Ultrasonography Assessment for Pulmonary Edema Using B-Lines**
  Anderson, K. L., Fields, J. M., Jenq, K., Mangili, A., Panebianco, N., Marin, J., Dean, A. J.
  MOSBY-ELSEVIER.2010: S116

- **Test Characteristics of Sonographic Evaluation of IVC Maximum Diameter and IVC Collapsibility Index In Predicting Congestive Heart Failure Among Dyspneic Patients In the Emergency Department**
  Anderson, K. L., Fields, J. M., Jenq, K., Mangili, A., Panebianco, N., Dean, A. J.
  MOSBY-ELSEVIER.2010: S81

- **Accuracy of Various Methods of B-Line Assessment In the Diagnosis of Congestive Heart Failure Compared by Receiver Operating Characteristic Curves**
  Anderson, K. L., Fields, J. M., Panebianco, N., Jenq, K., Mangili, A., Dean, A. J.
  MOSBY-ELSEVIER.2010: S97

- **Acute Care and Sports Injury** *Oxford American Handbook of Sports Medicine*
  Anderson, K. L.
  Oxford University Press.2010

- **Antinociception induced by chronic exposure of rats to cigarette smoke** *NEUROSCIENCE LETTERS*
  Anderson, K. L., Pinkerton, K. E., Uyeminami, D., Simons, C. T., Carstens, M. L., Carstens, E.
  2004; 366 (1): 86-91

- **The selective group mGlu2/3 receptor agonist LY379268 suppresses REM sleep and fast EEG in the rat** *PHARMACOLOGY BIOCHEMISTRY AND BEHAVIOR*
  Feinberg, I., Campbell, I. G., SCHOEPP, D. D., Anderson, K.
  2002; 73 (2): 467-474

- **Analgesia induced by chronic nicotine infusion in rats - Differences by gender and pain test** *PSYCHOPHARMACOLOGY*
  Carstens, E., Anderson, K. A., Simons, C. T., Carstens, M. I., Jinks, S. L.
  2001; 157 (1): 40-45