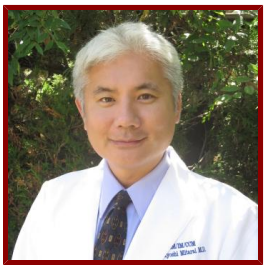
Stanford



Tsuyoshi (Yoshi) Mitarai

Clinical Professor, Emergency Medicine

CLINICAL OFFICE (PRIMARY)

- **Stanford Dept of Emergency Medicine**

  900 Welch Rd Ste 350

  MC 5119 3rd Fl

  Stanford, CA 94305

  Tel (650) 723-6576 **Fax** (650) 723-0121

Bio

CLINICAL FOCUS

- Emergency Critical Care
- Optimization of the ICU triage
- High risk pulmonary embolism
- Critical Care Medicine
- Internal Medicine/Emergency Medicine

ACADEMIC APPOINTMENTS

- Clinical Professor, Emergency Medicine

HONORS AND AWARDS

- Patient Safety First! Award (Stanford Emergency Critical Care Program), Society of Critical Care Medicine (2/2025)
- National Emergency Medicine Excellence in Bedside Teaching Award, American College of Emergency Medicine (9/2024)
- The Henry J. Kaiser Family Foundation Award for Excellence in Clinical Teaching, Stanford University School of Medicine (5/2019)
- Outstanding Educator Award, Department of Emergency Medicine, Stanford University (5/2019)
- Certificate of Honor In Medical Education, Stanford University School of Medicine (5/2019)
- Founder of the Emergency Critical Care Program, Stanford University School of Medicine (8/2017)
- The Henry J. Kaiser Family Foundation Award for Excellence in Clinical Teaching, Stanford University School of Medicine (6/2015)
- Save of the Month, Department of Emergency Medicine, Stanford University (9/2013)
- Consulting fellow of the year, Department of Emergency Medicine, Stanford University (6/2009)
- Chief fellow, Critical Care Medicine, Stanford University, CA (7/2008-6/2009)
- Robert J. Doherty Exemplary Teaching Resident Award, University of Maryland, MD (6/2007)
- Inductee of Humanism Honor Society, University of Maryland, MD (4/2007)

- Co-chief resident, combined internal/emergency medicine residency program, U. of Maryland, MD (7/2006-6/2007)
- Distinguished Service Award, University of Maryland Emergency Medicine, MD (7/2006-6/2007)
- Distinguished Service Award, University of Maryland Emergency Medicine, MD (7/2005-6/2006)
- Alpha Omega Alpha, University of Rochester School of Medicine, NY (10/2001)

PROFESSIONAL EDUCATION

- Board Certification: Critical Care Medicine, American Board of Internal Medicine (2009)
- Board Certification: Emergency Medicine, American Board of Emergency Medicine (2008)
- Board Certification: Internal Medicine, American Board of Internal Medicine (2007)
- Fellowship: Stanford University Critical Care Medicine Fellowship (2009) CA
- Residency: University of Maryland School of Medicine (2007) MD
- Medical Education: University of Rochester School of Medicine and Dentistry (2002) NY
- B.A., Swarthmore College , Economics (1998)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Critical Care, optimal resource allocations for inpatient care

Publications

PUBLICATIONS

- **ICU diagnoses associated with increased early emergency department downgrades by a novel emergency critical care program.** *The American journal of emergency medicine*
  Gupta, P. B., Levin, N. M., Gordon, A. J., Htet, N. N., Lee, J. E., Wilson, J. G., Mitarai, T.
  2026; 108: 107-113

- **Society of Critical Care Medicine Guidelines for the Allocation of Critical Care Resources to Adults During Crisis-Level Shortages.** *Critical care medicine*
  Nates, J. L., Jayaprakash, N., Carayannopoulos, K. L., Honarmand, K., Anesi, G. L., Bartlett Davis, L., Brunson, M. E., Chen, L. L., Christian, M. D., Fuentes, M., Gallagher, J. J., Harrod, C. G., Gutmann Koch, et al
  2026; 54 (3): 619-629

- **Executive Summary: Society of Critical Care Medicine Guidelines for the Allocation of Critical Care Resources to Adults During Crisis-Level Shortages.** *Critical care medicine*
  Nates, J. L., Jayaprakash, N., Carayannopoulos, K. L., Honarmand, K., Anesi, G. L., Bartlett Davis, L., Brunson, M. E., Chen, L. L., Christian, M. D., Fuentes, M., Gallagher, J. J., Harrod, C. G., Gutmann Koch, et al
  2026; 54 (3): 613-618

- **ED observation unit-based delayed comfort care pathway for ED patients on life support.** *The American journal of emergency medicine*
  Sun, J., D'Souza, M., Losak, M., Htet, N., Miles-Threatt, C., Mitarai, T.
  2025; 90: 93-97

- **DELAYED COMFORT CARE IN AN ED OBSERVATION UNIT**
  Sun, J., D'Souza, M., Losak, M., Htet, N., Mitarai, T.
  LIPPINCOTT WILLIAMS & WILKINS.2025

- **COMMON ICU DIAGNOSES ASSOCIATED WITH EARLY ED DOWNGRADE BY A NOVEL EMERGENCY CRITICAL CARE PROGRAM**
  Gupta, P., Levin, N., Gordon, A., Wilson, J., Mitarai, T.
  LIPPINCOTT WILLIAMS & WILKINS.2024

- **COMMON ICU DIAGNOSES ASSOCIATED WITH EARLY ED DOWNGRADE BY A NOVEL EMERGENCY CRITICAL CARE PROGRAM**
  Gupta, P., Levin, N., Gordon, A., Wilson, J., Mitarai, T.

LIPPINCOTT WILLIAMS & WILKINS.2024: S155

- **Association of an Emergency Critical Care Program With Survival and Early Downgrade Among Critically Ill Medical Patients in the Emergency Department.** *Critical care medicine*
  Mitarai, T., Gordon, A. J., Nudelman, M. J., Urdaneta, A. E., Nesbitt, J. L., Niknam, K., Graber-Naidich, A., Wilson, J. G., Kohn, M. A.
  2023
- **ASSOCIATION BETWEEN AN EMERGENCY CRITICAL CARE PROGRAM AND DKA CRITICAL CARE UTILIZATION IN THE ED**
  Gupta, P., Gordon, A., Mitarai, T., Nudelman, M., Kohn, M., Wilson, J.
  LIPPINCOTT WILLIAMS & WILKINS.2023: 129
- **Selection bias in estimating the relationship between prolonged ED boarding and mortality in emergency critical care patients.** *Journal of the American College of Emergency Physicians open*
  Gardner, K., Gordon, A. J., Shannon, B., Nesbitt, J., Wilson, J. G., Mitarai, T., Kohn, M. A.
  2022; 3 (1): e12667
- **Natural language processing of head CT reports to identify intracranial mass effect: CTIME algorithm.** *The American journal of emergency medicine*
  Gordon, A. J., Banerjee, I., Block, J., Winstead-Derlega, C., Wilson, J. G., Mitarai, T., Jarrett, M., Sanyal, J., Rubin, D. L., Wintermark, M., Kohn, M. A.
  2021; 51: 388-392
- **Effect of emergency critical care nurses and emergency department boarding time on in-hospital mortality in critically ill patients.** *The American journal of emergency medicine*
  Nesbitt, J., Mitarai, T., Chan, G. K., Wilson, J. G., Niknam, K., Nudelman, M. J., Cinkowski, C., Kohn, M. A.
  2020; 41: 120–24
- **Critical Care Education Day: A Novel, Multidisciplinary, and Interactive Critical Care Education Session for Emergency Medicine Residents** *CUREUS*
  Htet, N. N., Gordon, A., Mitarai, T.
  2020; 12 (1)
- **Critical Care Education Day: A Novel, Multidisciplinary, and Interactive Critical Care Education Session for Emergency Medicine Residents.** *Cureus*
  Htet, N. N., Gordon, A. J., Mitarai, T.
  2020; 12 (1): e6785
- **eccSOFA: SOFA illness severity score adapted to predict in-hospital mortality in emergency critical care patients.** *The American journal of emergency medicine*
  Niknam, K. n., Nesbitt, J. n., Mitarai, T. n., Nudelman, M. J., Gordon, A. J., Wilson, J. G., Kohn, M. A.
  2020; 41: 145–51
- **Beyond Triage and Resuscitation: Optimizing Care for the Critically Ill Emergency Department Patient.** *Emergency medicine clinics of North America*
  Greenwood, J. C., Mitarai, T.
  2019; 37 (3): xv-xvi
- **Splenic Rupture Diagnosed with Bedside Ultrasound in a Patient with Shock in the Emergency Department Following Colonoscopy.** *The western journal of emergency medicine*
  Mulkerin, W., Mitarai, T., Gharahbaghian, L., Perera, P.
  2015; 16 (5): 758-759
- **[Current status of nurse practitioners at Stanford University Medical Center].** *Nihon Geka Gakkai zasshi*
  Mitarai, T.
  2014; 115 (4): 226-230
- **The critical care literature 2010** *AMERICAN JOURNAL OF EMERGENCY MEDICINE*
  Winters, M. E., Mitarai, T., Brady, W. J.
  2012; 30 (7): 1268-1273
- **The critical care literature 2009** *AMERICAN JOURNAL OF EMERGENCY MEDICINE*
  Winters, M. E., Mitarai, T., Brady, W. J.

2011; 29 (5): 554-562

PRESENTATIONS

- If Patients Cannot Come to the ICU, the ICU Will Come to the Patients: Tales of ICU Without Borders - 2024 Critical Care Congress (Society of Critical Care Medicine)
- “Many Faces of Lactate: Not Always Severe Sepsis/Septic Shock”, Interdepartmental Grand Rounds at Kaiser SF (10/7/2011)
- “Lactate: a Blessing or a Curse?”, The CAL-AAEM Speakers Series (11/3/2011)
- “Critical Care in Emergency Department”, Bay Area Educational Event: Stanford/Highland General/University of California San Francisco Emergency Medicine Residency Joint Conference (8/22/2012)
- Challenging cases before and after endotracheal intubation.UCSF Kaiser ED ground rounds (10/7/2014)
- High risk pulmonary embolism, 38th Annual Emergency Medicine Conference in Yosemite, American College of Emergency Physicians California chapter (1/16/2015)
- High Risk Pulmonary Embolism, CEP America Spring Symposium - Valley Medical Center ED faculty group (April 8, 2014)
- Myocardial InfarctionThe Story the Textbooks Don’t Teach, ACEP/SEMPA Emergency Medicine Academy Phase 1 – Essentials (4/10/2015)
- Congestive Heart Failure: Winning at Failure, ACEP/SEMPA Emergency Medicine Academy Phase 1 – Essentials (4/10/2015)
- 12 Lead ECG Findings That You Must Know, ACEP/SEMPA Emergency Medicine Academy Phase 1 – Essentials (April 10, 2015)
- Saving Lives and Saving Beds: Insights from an Emergency Critical Care Program - The Institute for Critical Care Medicine, Icahn School of Medicine at Mount Sinai, New York, NY
- Prevention and Treatment of Decompensation from Endotracheal Intubation & Mechanical Ventilation, 39th Annual Emergency Medicine Conference in Yosemite ACEP California Chapter (1/15/2016)
- Emergency Critical Care and Survival/Downgrades - University of Maryland School of Medicine, Baltimore, MD
- Utilization of an ED Observation Unit for Delayed Comfort Care of ED Patients on Life Support
- Saving lives and saving beds: Insights from an Emergency Critical Care Program
- You're an EM-Intensivist...now what?
- Help! ICU boarding: Implementing the best model for delivering critical care in the ED
- Too Hot to Handle! Resuscitation and Management of the Critical Burn Patient