Stanford



Melissa Ann Vogelsong

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Bio

BIO

Dr. Vogelsong is a Clinical Associate Professor at Stanford University where she is involved in clinical work, education, and research. She completed her residency and dual fellowship training in Adult Cardiothoracic Anesthesia and Critical Care Medicine at Stanford and now attends in the Cardiovascular Intensive Care Unit (CVICU), Medical ICU, and cardiac ORs. This clinical work continuously reveals the ability of modern medicine to overcome seemingly insurmountable injury and illness, yet she believes that optimal care helps a patient to return to the highest level of functioning possible. Thus her research centers around finding ways to optimize the care of critically ill patients, particularly those supported on mechanical circulatory support and those who have suffered cardiac arrest. She has received funding from the Zoll Foundation and is actively engaged with the American Heart Association and Extracorporeal Life Support Organization.

Additionally, Dr. Vogelsong serves as Associate Medical Director for Life Flight, Stanford's air medical transport service and the only hospital-based flight program in California. She is actively engaged in efforts to enhance the provision of critical care within Stanford Hospital, and serves on multiple committees including the Medical Emergency Response Committee (MERC), ECMO Task Force, and CVICU Continuous Quality Improvement group.

When not at work, Dr. Vogelsong is a huge fan of life in California and can often be found hiking, on a mountain bike, in her Sprinter van, or talking to her many goats, llamas, and horses.

CLINICAL FOCUS

- Anesthesia
- Cardiothoracic Anesthesiology
- Critical Care Medicine
- Mechanical Circulatory Support

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Anesthesiology, Perioperative and Pain Medicine
- Member, Cardiovascular Institute

PROFESSIONAL EDUCATION

- Board Certification: Anesthesia, American Board of Anesthesiology (2019)
- Board Certification: Advanced Perioperative Transesophageal Echocardiography, National Board of Echocardiography (2020)
- Fellowship: Stanford University Anesthesiology Fellowships (2020) CA
- Board Certification: Critical Care Medicine, American Board of Anesthesiology (2019)
- Fellowship: Stanford University Critical Care Medicine Fellowship (2019) CA
- Residency: Stanford University Anesthesiology Residency (2018) CA
- Internship: Stanford University Internal Medicine Residency (2015) CA
- Medical Education: University of California at San Francisco School of Medicine (2014) CA

Research & Scholarship

CLINICAL TRIALS

- The ECMO-Free Trial, Recruiting
- Strategies for Anticoagulation During Venovenous ECMO, Not Recruiting

Publications

PUBLICATIONS

- **Protocol and Statistical Analysis Plan for the Extracorporeal Membrane Oxygenation-Free Trial A Multicenter Randomized Controlled Trial** *CHEST CRITICAL CARE*
  Gannon, W. D., Teijeiro-Paradis, R., Prekker, M. E., Vogelsong, M. A., Schwartz, G. S., Odish, M. F., Nickel, N. P., Bloom, S. L., Hansen, S. J., Fielding-Singh, V., Blough, B., Owens, R. L., Valles, et al
  2026; 4 (4)

- **Right ventricular remodeling after veno-venous extracorporeal membrane oxygenation bridge to lung transplantation in adults with severe lung disease.** *JHLT open*
  O'Donnell, C., Celestin, B., Rios-Monterrosa, J., Perottino, G., Jeon, H. D., Kent, K. E., Sun, L. Y., Khush, K. K., Haddad, F., Vogelsong, M. A.
  2026; 14: 100681

- **Is pulse pressure a mediator in the relationship between hyperoxemia and acute brain injury in veno-arterial extracorporeal membrane oxygenation (VA-ECMO) patients? An ELSO registry study.** *Perfusion*
  Fan, L., Liu, W. L., Feng, S. N., Ahmed, Y. B., Di Nardo, M., Vogelsong, M. A., Rali, A. S., Zaaqoq, A. M., Brodie, D., Whitman, G. J., Cho, S.
  2026; 41 (1_suppl): 126S-136S

- **Ethical Challenges of Extracorporeal Membrane Oxygenation: Enhanced Recovery After Surgery Cardiac Society Consensus on Key Issues and Practical Recommendations.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*
  Griffee, M. J., Kirsch, R. E., Rubin, J., Peeler, A., Hayanga, J. W., Chatterjee, S., Dorsey, D., Emeruwa, I. O., Goodwin, M. L., Rubin, E. B., Kim, B. S., Grant, M. C., Zaaqoq, et al
  2026

- **Specialized Tilt Bed for Mobilization on Femoral Extracorporeal Membrane Oxygenation: A Single-Center Retrospective Cohort Analysis.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*
  Goodman, J. R., Bankar, D., Rao, V. K., Vogelsong, M. A.
  2025

- **Part 4: Systems of Care: 2025 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care** *CIRCULATION*
  Dezfulian, C., Cabanas, J. G., Buckley, J. R., Cash, R. E., Crowe, R. P., Drennan, I. R., Mahgoub, M., Mannarino, C. N., May, T., Salcido, D. D., Uzendu, A. I., Vogelsong, M. A., Worth, et al
  2025; 152 (16): S353-S384

- **Impact of Left Ventricular Venting on Acute Brain Injury in Patients With Cardiogenic Shock: An Extracorporeal Life Support Organization Registry Analysis.** *Critical care medicine*

Feng, S. N., Liu, W. L., Kang, J. K., Kalra, A., Kim, J., Zaqooq, A., Vogelsong, M. A., Kim, B. S., Brodie, D., Brown, P., Whitman, G. J., Keller, S., Cho, et al
2025

- **Global Survey of Extracorporeal Membrane Oxygenation Transport Programs: Variability in Team Composition, Training, and Capabilities.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*
  Gottula, A. L., Gillespie, L., Lauria, M., Shaw, C. R., Purington, E., Bernardoni, B., Cathers, A., Kolbet, K., Rudolph, M., Lucchini, A., Bredmose, P., Frakes, M., Badulak, et al
  2025

- **Low- vs. Moderate-Intensity Anticoagulation for Venovenous Extracorporeal Membrane Oxygenation: The SAFE-ECMO Pilot Trial.** *Chest*
  Gannon, W. D., Pratt, E. H., Vogelsong, M. A., Adkisson, W. H., Bacchetta, M., Bloom, S. L., Ford, D. J., Guenthart, B. A., Landsperger, J. S., Qian, E. T., Rackley, C. R., Rice, T. W., Fielding-Singh, et al
  2025

- **Geospatial Access to Extracorporeal Membrane Oxygenation in the United States.** *Critical care medicine*
  Gottula, A. L., Van Wyk, H., Qi, M., Vogelsong, M. A., Shaw, C. R., Tonna, J. E., Johnson, N. J., Condella, A., Bartos, J. A., Berrocal, V. J., Benoit, J. L., Hsu, C. H.
  2025

- **Lung injury in myocardial infarction-associated cardiogenic shock supported by venoarterial extracorporeal membrane oxygenation: a scoping review.** *BMC cardiovascular disorders*
  Zaaqoq, A. M., Mazzeffi, M. A., Vogelsong, M. A., Roeser, M., Cho, S. M.
  2025; 25 (1): 40

- **Management of Patients With Cardiac Arrest Requiring Interfacility Transport: A Scientific Statement From the American Heart Association.** *Circulation*
  May, T. L., Bressler, E. A., Cash, R. E., Guyette, F. X., Lin, S., Morris, N. A., Panchal, A. R., Perrin, S. M., Vogelsong, M., Yeung, J., Elmer, J.
  2024

- **Almanac - Retrieval-Augmented Language Models for Clinical Medicine.** *NEJM AI*
  Zakka, C., Shad, R., Chaurasia, A., Dalal, A. R., Kim, J. L., Moor, M., Fong, R., Phillips, C., Alexander, K., Ashley, E., Boyd, J., Boyd, K., Hirsch, et al
  2024; 1 (2)

- **Hypoxic-Ischemic Brain Injury in ECMO: Pathophysiology, Neuromonitoring, and Therapeutic Opportunities.** *Cells*
  Khanduja, S., Kim, J., Kang, J. K., Feng, C., Vogelsong, M. A., Geocadin, R. G., Whitman, G., Cho, S.
  2023; 12 (11)

- **"Is all bystander CPR created equal? Further considerations in sex differences in cardiac arrest outcomes."** *Resuscitation*
  Perman, S. M., Vogelsong, M. A., Del Rios, M.
  2022

- **Severe COVID-19 disease in a 2nd trimester pregnancy: Successful ECMO and mechanical ventilation management.** *Respiratory medicine case reports*
  Hansra, B. S., Rao, V. K., Vogelsong, M. A., Ruoss, S. J.
  2022; 39: 101721

- **Beyond the 'Good' in Good Neurologic Outcome: Recovery as a Critical Link in the Chain of Survival after Cardiac Arrest.** *Resuscitation*
  Vogelsong, M. A., Hirsch, K. G.
  2021

- **Beyond the ventilator-cardiovascular management in SARS-CoV-2 infection** *INDIAN JOURNAL OF RESPIRATORY CARE*
  Kloosterboer, A. L., Vogelsong, M. A., Brodt, J. L.
  2021; 10: 43-49

- **A SYSTEMATIC REVIEW OF PALLIATIVE CARE IN MECHANICAL CIRCULATORY SUPPORT**
  Leong, J., Madhok, J., Vogelsong, M., Aslakson, R.
  LIPPINCOTT WILLIAMS & WILKINS.2021: 391

- **Influence of sex on survival, neurologic outcomes, and neurodiagnostic testing after out-of-hospital cardiac arrest.** *Resuscitation*

Vogelsong, M. A., May, T., Agarwal, S., Cronberg, T., Dankiewicz, J., Dupont, A., Friberg, H., Hand, R., McPherson, J., Mlynash, M., Mooney, M., Nielsen, N., O'Riordan, et al

2021

- **Retrospective Analysis of Peri-Intubation Hypoxemia During the Coronavirus Disease 2019 Epidemic Using a Protocol for Modified Airway Management.** *A&A practice*

  Madhok, J. n., Vogelsong, M. A., Lee, T. C., Wilson, J. G., Mihm, F. n.

  2020; 14 (14): e01360

- **Magnetic Resonance Imaging of Asymptomatic Knees in Collegiate Basketball Players: The Effect of One Season of Play.** *Clinical journal of sport medicine*

  Pappas, G. P., Vogelsong, M. A., Staroswiecki, E., Gold, G. E., Safran, M. R.

  2016; 26 (6): 483-489

- **New developments in magnetic resonance imaging techniques for shoulder instability in athletes.** *Open access journal of sports medicine*

  McAdams, T. R., Fredericson, M., Vogelsong, M., Gold, G.

  2010; 1: 137-142