



Nicole E Arkin

Clinical Assistant Professor, Anesthesiology, Perioperative and Pain Medicine

CLINICAL OFFICE (PRIMARY)

- **Anesthesia Department**

300 Pasteur Dr Rm H3580

MC 5640

Stanford, CA 94305

Tel (650) 723-6412 Fax (650) 725-8544

Bio

BIO

I am a critical care anesthesiologist who is devoted to providing excellent clinical care for the sickest patients and their families as well as training our next generation of leaders in critical care medicine.

The ICU is a unique and fascinating world where I get to combine my love of abnormal physiology, teaching, high-stakes medical care, interdisciplinary collaboration, and deep connections with patients and families. As an intensivist, anesthesiologist, and medical educator, there is no place where this is truer than at Stanford. After completing both medical school and anesthesiology residency at Stanford, I experienced the ravages of the COVID-19 pandemic along with the innovation and collaboration that can result from moments of crisis as an Critical Care Medicine fellow at Massachusetts General Hospital. I was drawn to return to Stanford to join our incredible group of intensivists based on the emphasis on interdisciplinary collaboration and professional growth. This rich environment is filled with interesting medicine and brilliant colleagues; it is a place that supports my goals of educating and training future leaders in critical care medicine while taking care of the sickest patients in the hospital and their families.

While clinical practice is the foundation of what I love about being a physician, I am also interested in leadership development both through education and research. I have a Masters of Science in Teaching and spent two years as a high school chemistry teacher in the South Bronx through Teach for America where I focused on curriculum development. In residency, I became interested in feedback and led a mixed methods research study that identified gender bias in resident feedback during the early years of anesthesiology residency. Currently, I am the Associate Program Director of our Anesthesia Critical Care fellowship and am the Director of the required clerkship for medical students in the ICU. I feel incredibly privileged to work in a place that supports these pursuits and encourages me to be the best physician, colleague, and educator I can be.

CLINICAL FOCUS

- Anesthesia
- Critical Care Medicine
- Medical Education

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Anesthesiology, Perioperative and Pain Medicine

HONORS AND AWARDS

- ISP Star Award Winner: Redesigning clerkship assessment for medical student success, Stanford Hospital and Clinics (2026)
- Henry J. Kaiser Family Foundation Award for Excellence in Clerkship Teaching, Stanford Medicine (2024-2025)

PROFESSIONAL EDUCATION

- Board Certification: Critical Care Medicine, American Board of Anesthesiology (2021)
- Board Certification: Anesthesia, American Board of Anesthesiology (2021)
- Fellowship: Massachusetts General Hospital Critical Care Anesthesia Fellowship (2020) MA
- Residency: Stanford University Anesthesiology Residency (2019) CA
- Medical Education: Stanford University School of Medicine (2015) CA

Publications

PUBLICATIONS

- **NONHEPATIC HYPERAMMONEMIA: FATAL CEREBRAL EDEMA IN A 43-YEAR-OLD FEMALE WITH TOXIC MEGACOLON**
Kent, K., Lee, J., Arkin, N.
LIPPINCOTT WILLIAMS & WILKINS.2024
- **Nutrition in critically ill patients with COVID-19: Challenges and special considerations.** *Clinical nutrition (Edinburgh, Scotland)*
Arkin, N., Krishnan, K., Chang, M. G., Bittner, E. A.
2020; 39 (7): 2327-2328
- **What's in a Word? Qualitative and Quantitative Analysis of Leadership Language in Anesthesiology Resident Feedback.** *Journal of graduate medical education*
Arkin, N., Lai, C., Kiwakyou, L. M., Lochbaum, G. M., Shafer, A., Howard, S. K., Mariano, E. R., Fassiotto, M.
2019; 11 (1): 44-52
- **What's in a Word? Qualitative and Quantitative Analysis of Leadership Language in Anesthesiology Resident Feedback** *Journal of Graduate Medical Education*
Arking, N., Lai, C., Kiwakyou, L. M., Lochbaum, G. M., Shafer, A., Howard, S. K., Mariano, E. R., Fassiotto, M.
2019; 11 (1): 44-52
- **Surviving and THRIVE-ing the difficult airway: gaining calm, control, and time during an emergent tracheostomy.** *Journal of Head & Neck Anesthesia*
Arkin, N., Bushell, E.
2017; 2 (2): 23-27
- **Induced-anxiety differentially disrupts working memory in generalized anxiety disorder.** *BMC psychiatry*
Vytal, K. E., Arkin, N. E., Overstreet, C., Lieberman, L., Grillon, C.
2016; 16: 62
- **The Association of Nurse-to-Patient Ratio with Mortality and Preventable Complications Following Aortic Valve Replacement.** *Journal of cardiac surgery*
Arkin, N., Lee, P. H., McDonald, K., Hernandez-Boussard, T.
2014; 29 (2): 141-148
- **The complex interaction between anxiety and cognition: insight from spatial and verbal working memory.** *Frontiers in human neuroscience*
Vytal, K. E., Cornwell, B. R., Letkiewicz, A. M., Arkin, N. E., Grillon, C.
2013; 7: 93
- **Distinct contributions of human hippocampal theta to spatial cognition and anxiety.** *Hippocampus*

Cornwell, B. R., Arkin, N., Overstreet, C., Carver, F. W., Grillon, C.
2012; 22 (9): 1848-59

- **Describing the interplay between anxiety and cognition: from impaired performance under low cognitive load to reduced anxiety under high load.** *Psychophysiology*

Vytal, K., Cornwell, B., Arkin, N., Grillon, C.
2012; 49 (6): 842-52