



Vikram Fielding-Singh, MD, JD, MS

Clinical Associate Professor, Anesthesiology, Perioperative and Pain Medicine

CLINICAL OFFICE (PRIMARY)

- **Anesthesia**

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Bio

BIO

Dr. Vikram Fielding-Singh is a Clinical Associate Professor in the Department of Anesthesiology, Perioperative and Pain Medicine at Stanford University. He obtained his medical degree from Stanford University and completed residency training at the University of California, San Francisco. He then pursued dual cardiac anesthesia and critical care training at the University of California, Los Angeles. He holds a juris doctorate from Yale Law School. Dr. Fielding-Singh's research interests include improving perioperative care of patients with end stage kidney disease, using biomarkers to aid early diagnosis of acute kidney injury, and evaluating the performance of risk prediction models in perioperative medicine.

CLINICAL FOCUS

- Anesthesia
- Cardiothoracic Anesthesiology
- Critical Care Medicine

ACADEMIC APPOINTMENTS

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

PROFESSIONAL EDUCATION

- MS, Stanford University , Epidemiology and Clinical Research (2025)
- Board Certification: Advanced Perioperative Transesophageal Echocardiography, National Board of Echocardiography (2020)
- Board Certification: Critical Care Medicine, American Board of Anesthesiology (2020)
- Board Certification: Anesthesia, American Board of Anesthesiology (2019)
- Fellowship: UCLA Critical Care Fellowship Program (2020) CA
- Fellowship: UCLA Adult Cardiothoracic Anesthesia Fellowship (2019) CA
- Residency: UCSF Anesthesiology Residency (2018) CA

- Internship: Kaiser Permanente San Francisco Internal Medicine Residency (2015) CA
- Medical Education: Stanford University School of Medicine (2014) CA
- JD, Yale Law School (2010)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I am a clinical investigator interested in improving perioperative care of patients with end stage kidney disease, using biomarkers to aid early diagnosis of acute kidney injury, optimizing care for high-risk cardiac surgical patients and those on mechanical circulatory support, and evaluating the performance of risk prediction models in perioperative medicine.

CLINICAL TRIALS

- A Study of Auxora in Patients With AKI and Injurious Lung "Crosstalk", Recruiting
- Neutrophil and Monocyte Deactivation Via the SeLective Cytopheretic Device - a Randomized Clinical Trial in Acute Kidney Injury, Recruiting
- Phase 3 Study on the Efficacy and Safety of Human Plasma Derived Antithrombin (Atenativ) in Heparin-Resistant Patients Scheduled to Undergo Cardiac Surgery Necessitating Cardiopulmonary Bypass, Recruiting
- The ECMO-Free Trial, Recruiting
- Strategies for Anticoagulation During Venovenous ECMO, Not Recruiting

Publications

PUBLICATIONS

- **Perioperative Management of the Patient Receiving Maintenance Hemodialysis.** *Anesthesiology*
Fielding-Singh, V., Roshanov, P. S., Morris, A. M., Chertow, G. M.
2025; 143 (4): 1030-1048
- **Preoperative Dialysis Dose and Postoperative Outcomes in Patients Receiving Maintenance Hemodialysis.** *Kidney360*
Fielding-Singh, V., Vanneman, M. W., Morris, A. M., Winkelmayer, W. C., Sun, L. Y., Roshanov, P. S., Montez-Rath, M., Chertow, G. M., Lin, E.
2025
- **Association Between Preoperative Hemodialysis Timing and Postoperative Mortality in Patients With End-stage Kidney Disease.** *JAMA*
Fielding-Singh, V., Vanneman, M. W., Grogan, T., Neelankavil, J. P., Winkelmayer, W. C., Chang, T. I., Liu, V. X., Lin, E.
2022
- **Trends in US Cardiac Anesthesiologist Income, Work Patterns, and Compensation Satisfaction From 2020 to 2024: A Longitudinal Analysis of the Society of Cardiovascular Anesthesiologists Salary Survey.** *Anesthesia and analgesia*
Vanneman, M. W., Choudhury, N., Fielding-Singh, V., Rhee, A., Klopman, M. A.
2026
- **Time-varying comparative effectiveness of surgical or percutaneous revascularization on patient-centred outcomes.** *CMAJ : Canadian Medical Association journal = journal de l'Association medicale canadienne*
Fielding-Singh, V., O'Donnell, C., Boyd, J. H., Tuna, M., Mamas, M. A., Ruel, M., Sun, L. Y.
2025; 197 (42): E1436-E1448
- **Nitric Oxide and Kidney Injury after Cardiac Surgery: A Solution Looking for a Problem.** *Anesthesiology*
Fielding-Singh, V., Ghadimi, K.
2025; 143 (2): 247-249
- **Highlights from the American College of Cardiology and American Heart Association 2024 Guideline for Perioperative Cardiovascular Management for Noncardiac Surgery.** *Journal of cardiothoracic and vascular anesthesia*
Kothari, P., Vanneman, M. W., Choi, C., Diehl, R., Fielding-Singh, V.
2025

- **Patient- and Institution-Level Factors Associated With Intraoperative Cardiac Arrest During Major Noncardiac Surgery.** *Anesthesia and analgesia*
Banihani, S., Coaston, T. N., Fielding-Singh, V., Aguayo, E., Meltzer, J. S., Benharash, P.
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
- **Preoperative estimated glomerular filtration rate to predict cardiac events in major noncardiac surgery: a secondary analysis of two large international studies.** *British journal of anaesthesia*
Roshanov, P. S., Walsh, M. W., Garg, A. X., Cuerden, M., Lam, N. N., Hildebrand, A. M., Lee, V. W., Mrkobrada, M., Leslie, K., Chan, M. T., Borges, F. K., Wang, C. Y., Xavier, et al
2025
- **Association of Kidney Function With Inpatient Mortality and Morbidity After Cardiac Surgery.** *Annals of thoracic surgery short reports*
Fielding-Singh, V., Vanneman, M. W., Hong, T., Sun, L. Y., Morris, A. M., Chertow, G. M., Lin, E.
2024; 2 (4): 877-883
- **Using Preoperative Race-Free Estimated GFR to Predict Cardiac Events in Major Noncardiac Surgery: Secondary Analysis of Two Large International Studies**
Roshanov, P., Walsh, M., Lam, N., Hildebrand, A., Lee, V., Mrkobrada, M., Leslie, K., Chan, M., Borges, F., Wang, C. Y., Xavier, D., Sessler, D., Szczeklik, et al
LIPPINCOTT WILLIAMS & WILKINS.2024: 868-871
- **Long-term Time-specific Sex Differences in Survival and Major Adverse Cardiovascular Events Following Surgical versus Percutaneous Revascularization**
O'Donnell, C., Fielding-Singh, V., Rios-Monterrosa, J., Sun, L.
LIPPINCOTT WILLIAMS & WILKINS.2024: 101-102
- **Preoperative Kt/Vurea and Postoperative Outcomes in Patients on Maintenance Hemodialysis**
Fielding Singh, V., Chertow, G. M., Lin, E.
AMER SOC NEPHROLOGY.2024
- **The Society of Thoracic Surgeons Adult Cardiac Surgery Database: Intraoperative Echocardiography Reporting.** *Journal of cardiothoracic and vascular anesthesia*
Nicoara, A., Fielding-Singh, V., Bollen, B. A., Rhee, A., Mackay, E. J., Abernathy, J. H., Alfirevic, A., John, S., Kapoor, A., MacDonald, A. J., Qu, J. Z., Roca, G. Q., Subramanian, et al
2024
- **Variability and relative contribution of surgeon and anesthesia specific time components to total procedural time in cardiac surgery.** *The Journal of thoracic and cardiovascular surgery*
Vanneman, M. W., Thuraiappah, M., Feinstein, I., Fielding-Singh, V., Peterson, A., Kronenberg, S., Angst, M. S., Aghaeepour, N.
2023
- **Disparities in the Timing of Preoperative Hemodialysis Among Patients With End-Stage Kidney Disease.** *JAMA network open*
Fielding-Singh, V., Vanneman, M. W., Morris, A. M., Chertow, G. M., Lin, E.
2023; 6 (7): e2326326
- **Clinically Indicated, Equitable Care for Ischemic Heart Disease in CKD: A Call to Action.** *Journal of the American Society of Nephrology : JASN*
Fielding-Singh, V., Chertow, G. M.
2023; 34 (4): 525-526
- **Preoperative Hemodialysis Timing and Postoperative Mortality in Patients With End-stage Kidney Disease-Reply.** *JAMA*
Fielding-Singh, V., Vanneman, M. W., Lin, E.
2023; 329 (11): 939-940
- **The Art of the Null Hypothesis-Considerations for Study Design and Scientific Reporting.** *Journal of cardiothoracic and vascular anesthesia*
O'Donnell, C. T., Fielding-Singh, V., Vanneman, M. W.

2023

- **Variations in operating room staff compliance with mandatory daily electronic COVID-19 symptom screening.** *British journal of anaesthesia*
Gessner, D. M., Sun, E., Fielding-Singh, V.
2023; 130 (1): e10-e12
- **Transcatheter Aortic Valve Dissemination: The More the Merrier or Too Much of a Good Thing?** *Journal of cardiothoracic and vascular anesthesia*
Bodmer, N. J., Fielding-Singh, V., Vanneman, M. W.
1800
- **Accuracy of administrative database estimates of national surgical Volume: Solid organ transplantation in the national inpatient sample.** *Clinical transplantation*
Fielding-Singh, V., Grogan, T. R., Neelankavil, J. P.
2021
- **Predicting Post-Liver Transplant Outcomes-Rise of the Machines or a Foggy Crystal Ball?** *Journal of cardiothoracic and vascular anesthesia*
Vanneman, M. W., Fielding-Singh, V., Aghaeepour, N.
2021
- **Impact of the Addition of Examples to the American Society of Anesthesiologists Physical Status Classification System** *ANESTHESIA AND ANALGESIA*
Fielding-Singh, V., Willingham, M. D., Grogan, T., Neelankavil, J. P.
2020; 130 (3): E54–E57
- **A Population-Based Analysis of Intraoperative Cardiac Arrest in the United States** *ANESTHESIA AND ANALGESIA*
Fielding-Singh, V., Willingham, M. D., Fischer, M. A., Grogan, T., Benharash, P., Neelankavil, J. P.
2020; 130 (3): 627–34
- **Methylprednisolone: Likely an Effective Treatment in Acute Respiratory Distress Syndrome Reply** *CRITICAL CARE MEDICINE*
Fielding-Singh, V., Matthay, M. A., Calfee, C. S.
2019; 47 (4): E375–E376
- **Airway Pressure Release Ventilation as a Rescue for Acute Respiratory Distress Syndrome But Use Early to Prevent It! Reply** *CRITICAL CARE MEDICINE*
Fielding-Singh, V., Matthay, M. A., Calfee, C. S.
2019; 47 (4): E380–E381
- **Beyond Low Tidal Volume Ventilation: Treatment Adjuncts for Severe Respiratory Failure in Acute Respiratory Distress Syndrome** *CRITICAL CARE MEDICINE*
Fielding-Singh, V., Matthay, M. A., Calfee, C. S.
2018; 46 (11): 1820–31
- **Reply to the Timing of Early Antibiotics and Hospital Mortality in Sepsis - Playing Devil's Advocate.** *American journal of respiratory and critical care medicine*
Liu, V., Fielding-Singh, V., Iwashyna, T. J., Bhattacharya, J., Escobar, G.
2017
- **The Timing of Early Antibiotics and Hospital Mortality in Sepsis.** *American journal of respiratory and critical care medicine*
Liu, V. X., Fielding-Singh, V., Greene, J. D., Baker, J. M., Iwashyna, T. J., Bhattacharya, J., Escobar, G. J.
2017
- **Ruling out bacteremia and bacterial meningitis in infants less than one month of age: is 48 hours of hospitalization necessary?** *Hospital pediatrics*
Fielding-Singh, V., Hong, D. K., Harris, S. J., Hamilton, J. R., Schroeder, A. R.
2013; 3 (4): 355-361
- **Multiple Recurrent De Novo CNVs, Including Duplications of the 7q11.23 Williams Syndrome Region, Are Strongly Associated with Autism** *NEURON*
Sanders, S. J., Ercan-Sencicek, A. G., Hus, V., Luo, R., Murtha, M. T., Moreno-De-Luca, D., Chu, S. H., Moreau, M. P., Gupta, A. R., Thomson, S. A., Mason, C. E., Bilguvar, K., Celestino-Soper, et al

