Stanford



# Andrew Reese Moore

Instructor, Medicine - Pulmonary, Allergy & Critical Care Medicine


### CLINICAL OFFICE (PRIMARY)

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## Bio

### BIO

I am a physician and researcher who specializes in the management of patients with critical illness. I work clinically in the Intensive Care Units at Stanford Trivalley and Good Samaritan Hospitals. When I'm not in the hospital, I work in the laboratories of Dr. Angela Rogers and Purvesh Khatri and my research focuses on leveraging machine learning on multi-omic data to evaluate the immune response in critical illness. It is striking that despite many years of studying infections, we still treat patients with severe infections the same as we did 30 years ago, with antimicrobials, fluids, and supportive care. The goal of my research is to bring the ideals of precision medicine to critical care. In particular, I am working to better quantify how the immune system responds to infections with the goal of being able to "read" the immune system and treat patients with the medications they need to successfully recover.

### CLINICAL FOCUS

- Critical Care Medicine

### ACADEMIC APPOINTMENTS

- Instructor, Medicine - Pulmonary, Allergy & Critical Care Medicine

### ADMINISTRATIVE APPOINTMENTS

- Associate Program Director, Critical Care Medicine Fellowship, (2025- present)

### HONORS AND AWARDS

- Stanford K12 Mentored Career Development Program, Stanford University (2025-2027)
- ESCMID International Sepsis Forum Award, ESCMID/International Sepsis Forum (2025)
- Clinical Research Award, Respiratory Diseases Young Investigator's Forum (2024)
- Kelley Skeff Award for Professionalism as a Member of the Housestaff, Stanford University School of Medicine (2019 & 2020)
- Award for Best Clinical Teaching by a Medicine Resident, Stanford University Internal Medicine Residency (2019)
- Julian Wolfsohn Award for Outstanding Performance in IM and Neurology, Stanford University Internal Medicine Residency (2017)

- Herbert R. Farber Award for excellence in Internal Medicine and athletics, University of Virginia School of Medicine (2017)
- Chappell Fellowship, College of William and Mary (2011)

### PROFESSIONAL EDUCATION

- Residency: Stanford University Internal Medicine Residency (2021) CA
- Fellowship: Stanford University Pulmonary and Critical Care Fellowship (2024) CA
- Board Certification: Internal Medicine, American Board of Internal Medicine (2020)
- Board Certification: Pulmonary Disease, American Board of Internal Medicine (2023)
- Board Certification: Critical Care Medicine, American Board of Internal Medicine (2024)

## Research & Scholarship

### CURRENT RESEARCH AND SCHOLARLY INTERESTS

I am co-mentored by Dr. Angela Rogers and Dr. Purvesh Khatri. My research focuses on leveraging machine learning on multi-omic data to evaluate the immune response in critical illness. It is striking that despite many years of studying infections, we still treat patients with severe infections the same as we did 30 years ago, with antimicrobials, fluids, and supportive care. The goal of my research is to bring the ideals of precision medicine to critical care. In particular, I am working to better quantify how the immune system responds to infections with the goal of being able to "read" the immune system and treat patients with the medications they need to successfully recover.

## Publications

### PUBLICATIONS

- **A single-cell atlas of human neutrophils reveals neutrophil heterogeneity across health and disease.** *Nature immunology*
  Zheng, H., Maestri, E., Moore, A. R., Ganesan, A., Enriquez, J., Durán, V., Einav, S., van der Poll, T., Bouma, H. R., Atreya, M. R., Efron, P. A., Moldawer, L. L., Sevransky, et al
  2026
- **Outcomes of immunocompromised and non-immunocompromised patients in the ICU diverge late in the pandemic.** *PloS one*
  Battu, S., Moore, A. R., Lebold, K., Pacheco-Navarro, A., Pienkos, S., O'Donnell, C., Sanchez, P., Parmer-Chow, C., Roque, J., Ramaswamy, T., Wilson, J. G., Levitt, J. E., Collins, et al
  2026; 21 (9): e0357181
- **Rapid Resolution of Hypoxemia is Common and Associated with Lower Mortality Among Intubated Patients with Acute Hypoxemic Respiratory Failure.** *Journal of intensive care medicine*
  Chiacchia, S. R., Wilson, J. G., Perez, C., Roque, J., Jensen, A., Levitt, J., Moore, A. R., Rogers, A. J.
  2026: 8850666261475636
- **High risk blood myeloid dysregulation is elevated in obesity and is reduced by lifestyle interventions**
  Moore, A., Enriquez, J., Ganesan, A., Zheng, H., Khatri, P.
  OXFORD UNIV PRESS.2026
- **TIDEPOOL, a method for inferring disease trajectories across cohorts, identifies neutrophil-driven trajectories associated with severity of infections**
  McCann, H., Moore, A., Arora, I., Zheng, H., Khatri, P.
  OXFORD UNIV PRESS.2026
- **The ARDS, Pneumonia, and Sepsis (APS) Consortium: Rationale, Design, and Feasibility of a National Platform for Phenotyping Critical Illness Syndromes.** *Chest*
  Self, W. H., Calfee, C. S., Brown, S. M., Moss, M., Ware, L. B., Hyzy, R. C., Meyer, N. J., Reilly, J. P., Harhay, M. O., Shashaty, M. G., Sandsmark, D. K., Auriemma, C. L., Jones, et al
  2026
- **TGFβ-PDL1 signaling in neutrophils preserves lung barrier during hyperinflammation.** *Blood*

Li, Z., Moore, A. R., Zheng, H., Karunamurthy, J., Bhagrath, A., Li, J., Young, D., Jurado, L. F., Couto, K., Kulle, A., Park, H., Kwak, A., Belur, et al
2026

- **Predicting Future Organ Support Needs Using Longitudinal Emergency Department Data: A Proof-of-Concept Study.** *Research square*
  Chiacchia, S., Lebold, K., Moore, A., Hedlin, H., Rose, C., Kim, D., Wilson, J.
  2026
- **CRITICAL CARE IMMUNE DYSREGULATION FRAMEWORK DIFFERENTIATES SEPTIC AND CARDIOGENIC SHOCK**
  Ghaffari, K., Moore, A., Sanchez, P., Rogers, A., Khatri, P.
  LIPPINCOTT WILLIAMS & WILKINS.2026
- **CRITICAL ESCALATION OF RAPID RESPONSE TEAM ACTIVATION VARIES BY DIAGNOSIS**
  Gupta, P., Moore, A., Lighthall, G., Gordon, A., Ramaswamy, T.
  LIPPINCOTT WILLIAMS & WILKINS.2026
- **Molecular endotypes predict differential response to immunosuppressant therapy in non-IPF interstitial lung disease.** *American journal of respiratory and critical care medicine*
  Maddali, M. V., Pugashetti, J. V., Pienkos, S. M., Moore, A. R., Konkol, S. B., Kim, J. S., Ma, S. F., Newton, C. A., Garcia, C. K., Adegunsoye, A., Strek, M. E., Chen, C. H., Linderholm, et al
  2026
- **Drivers of prognosis and clinical trajectories differ between COVID and non-COVID acute hypoxic respiratory failure.** *PloS one*
  Pienkos, S., Moore, A. R., Roque, J., Jensen, A., Pacheco-Navarro, A., Lebold, K. M., Parmer-Chow, C., Sanchez, P. A., Morin, H., O'Donnell, C., Ramaswamy, T., Collins, W., Wilson, et al
  2025; 20 (12): e0339604
- **Neutrophil dysregulation differentiates pediatric septic shock biomarker-based mortality-risk strata: insights from weighted gene co-expression network and transcriptomic analyses.** *Frontiers in immunology*
  Dunwoodie, L., Huang, M., Moore, A. R., Stanski, N. L., Standage, S. W., Kaplan, J. M., Zingarelli, B., Harmon, K., Fitzgerald, J. C., Weiss, S. L., Bigham, M. T., Schwarz, A. J., Lutfi, et al
  2025; 16: 1663704
- **A consensus blood transcriptomic framework for sepsis.** *Nature medicine*
  Scicluna, B. P., Cano-Gamez, K., Burnham, K. L., Davenport, E. E., Moore, A. R., Khan, S., Hinds, C. J., Cremer, O. L., Khatri, P., Sweeney, T. E., Knight, J. C., van der Poll, T.
  2025
- **A consensus immune dysregulation framework for sepsis and critical illnesses.** *Nature medicine*
  Moore, A. R., Zheng, H., Ganesan, A., Hasin-Brumshtein, Y., Maddali, M. V., Levitt, J. E., van der Poll, T., Lu, J., Bouma, H. R., Scicluna, B. P., Giamarellos-Bourboulis, E. J., Kotsaki, A., Martin-Loeches, et al
  2025
- **Stewardship of Intravenous Fluids During Shortage and Beyond.** *The Journal of emergency medicine*
  Moore, A. R., Gordon, A. J., Marvel, J. T., Maddali, M. V., Chen, J. H., Urdaneta, A., Wilson, J. G.
  2025; 80: 194-198
- **Heterogeneity in association of myocardial injury and mortality in sepsis or acute respiratory distress syndrome by subphenotype: a retrospective study.** *Critical care (London, England)*
  Sanchez, P. A., Obeidalla, S., Kerchberger, V. E., Moore, A. R., Maddali, M. V., Kangelaris, K. N., Hendrickson, C. M., Evrard, B., Liu, K. D., Bastarache, J. A., Matthay, M. A., Rogers, A. J., Calfee, et al
  2025; 29 (1): 363
- **Plasma-Based Endotypes in Acute Respiratory Distress Syndrome Identify High-Risk Patients With Extrapulmonary Disease: Why Looking Outside the Lung Compartment Enriches for Nonpulmonary Morbidity and Mortality.** *Critical care medicine*
  Moore, A. R., Bhatraju, P. K., Rogers, A. J.
  2025
- **A conserved immune dysregulation signature is associated with infection severity, risk factors prior to infection, and treatment response.** *Immunity*
  Ganesan, A., Moore, A. R., Zheng, H., Toh, J., Freedman, M., Magis, A. T., Heath, J. R., Khatri, P.
  2025

- **Oxygenation trajectories following inhaled nitric oxide in non-intubated and mechanically ventilated COVID-19 patients** *CHEST Critical Care*
  Ramaswamy , T. S., et al
  2025

- **Identification and transcriptomic assessment of latent profile pediatric septic shock phenotypes.** *Critical care (London, England)*
  Atreya, M. R., Huang, M., Moore, A. R., Zheng, H., Hasin-Brumshtein, Y., Fitzgerald, J. C., Weiss, S. L., Cvijanovich, N. Z., Bigham, M. T., Jain, P. N., Schwarz, A. J., Lutfi, R., Nowak, et al
  2024; 28 (1): 246

- **Molecular Endotypes of Idiopathic Pulmonary Fibrosis: A Latent Class Analysis of Two Multicenter Observational Cohorts.** *American journal of respiratory and critical care medicine*
  Maddali, M. V., Moore, A. R., Sinha, P., Newton, C. A., Kim, J. S., Adegunsoye, A., Ma, S. F., Strek, M. E., Chen, C. H., Linderholm, A. L., Zemans, R. L., Moore, B. B., Wolters, et al
  2024

- **Association between emergency department disposition and mortality in patients with COVID-19 acute respiratory distress syndrome.** *Journal of the American College of Emergency Physicians open*
  Lebold, K. M., Moore, A. R., Sanchez, P. A., Pacheco-Navarro, A. E., O'Donnell, C., Roque, J., Parmer, C., Pienkos, S., Levitt, J., Collins, W. J., Rogers, A. J., Wilson, J. G.
  2024; 5 (3): e13192

- **42-gene Severe-or-Mild (SOM) gene expression signature is conserved across viral and bacterial infections and originates from developing neutrophils**
  Moore, A., Freedman, M., Zheng, H., Ganesan, A., Rogers, A., Khatri, P.
  AMER ASSOC IMMUNOLOGISTS.2024

- **Elevated Plasma Interleukin-18 Identifies High-Risk Acute Respiratory Distress Syndrome Patients not Distinguished by Prior Latent Class Analyses Using Traditional Inflammatory Cytokines: A Retrospective Analysis of Two Randomized Clinical Trials.** *Critical care medicine*
  Moore, A. R., Pienkos, S. M., Sinha, P., Guan, J., O'Kane, C. M., Levitt, J. E., Wilson, J. G., Shankar-Hari, M., Matthay, M. A., Calfee, C. S., Baron, R. M., McAuley, D. F., Rogers, et al
  2023

- **Right Ventricular Dysfunction Patterns Among Patients with COVID-19 in the Intensive Care Unit - a Retrospective Cohort Analysis.** *Annals of the American Thoracic Society*
  Sanchez, P. A., O'Donnell, C. T., Francisco, N., Santana, E. J., Moore, A. R., Pacheco-Navarro, A., Roque, J., Lebold, K. M., Parmer, C. M., Pienkos, S. M., Celestin, B. E., Levitt, J. E., Collins, et al
  2023

- **Effect of total cholesterol and statin therapy on mortality in ARDS patients: a secondary analysis of the SAILS and HARP-2 trials.** *Critical care (London, England)*
  Pienkos, S. M., Moore, A. R., Guan, J., Levitt, J. E., Matthay, M. A., Baron, R. M., Conlon, J., McAuley, D. F., O'Kane, C. M., Rogers, A. J.
  2023; 27 (1): 126

- **Autoantibodies are highly prevalent in non-SARS-CoV-2 respiratory infections and critical illness.** *JCI insight*
  Feng, A., Yang, E. Y., Moore, A. R., Dhingra, S., Chang, S. E., Yin, X., Pi, R., Mack, E. K., Völkel, S., Geßner, R., Gündisch, M., Neubauer, A., Renz, et al
  2023; 8 (3)

- **Prospective validation of an 11-gene mRNA host response score for mortality risk stratification in the intensive care unit.** *Scientific reports*
  Moore, A. R., Roque, J., Shaller, B. T., Asuni, T., Remmel, M., Rawling, D., Liesenfeld, O., Khatri, P., Wilson, J. G., Levitt, J. E., Sweeney, T. E., Rogers, A. J.
  2021; 11 (1): 13062

- **A generalizable 29-mRNA neural-network classifier for acute bacterial and viral infections.** *Nature communications*
  Mayhew, M. B., Buturovic, L., Luethy, R., Midic, U., Moore, A. R., Roque, J. A., Shaller, B. D., Asuni, T., Rawling, D., Remmel, M., Choi, K., Wacker, J., Khatri, et al
  2020; 11 (1): 1177

- **Cat scratch disease: U.S. clinicians' experience and knowledge.** *Zoonoses and public health*
  Nelson, C. A., Moore, A. R., Perea, A. E., Mead, P. S.

2018; 65 (1): 67-73

- **Current Guidelines, Common Clinical Pitfalls, and Future Directions for. Laboratory Diagnosis of Lyme Disease, United States** *EMERGING INFECTIOUS DISEASES*

  Moore, A., Nelson, C., Molins, C., Mead, P., Schriefer, M.

  2016; 22 (7): 1169–77