Stanford



# Andre Kumar MD, MEd

Clinical Professor, Medicine


**CLINICAL OFFICE (PRIMARY)**

- **Hospitalist for Stanford Medical Center**

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## Bio

### BIO

Dr. Andre Kumar is a Clinical Professor in the Stanford Division of Hospital Medicine with a passion for improving patient care through Point-of-Care Ultrasound (POCUS), clinical research, and education. He earned his MD from Tulane University and completed his residency, chief residency, and a Master's in Education at Stanford University.

Dr. Kumar has extensive experience in creating, operationalizing, and leading multi-center clinical trials, including investigations related to POCUS, COVID-19 therapeutics, procedural safety, and the long-term health consequences of infections on the heart and lungs. He continues to conduct research and teach POCUS on a local and national level, and is committed to improving the science and education that underlie the next generation of diagnostic tools. Currently, his research focuses on the impact of artificial intelligence (AI) on numerous healthcare applications, particularly for the improving the accuracy of clinician diagnosis, evidence-based management, and medical imaging.

Dr. Kumar is also a committed educator and mentor to the next generation of physicians. His contributions to medical education have been recognized with several awards, including the Lawrence H. Mathers Award for Exceptional Commitment to Teaching (2023), the Henry J. Kaiser Foundation Award for Excellence in Clinical Teaching (2018, 2022), and the David A. Rytand Clinical Teaching Award (2018, 2022, and 2025). Dr. Kumar has contributed to the creation of free educational content for POCUS, including videos for the Stanford Medicine 25 series, New England Journal of Medicine, and JAMA, which have amassed over 2,000,000 views worldwide.

Dr. Kumar has held numerous leadership positions that reflect his commitment to advancing medical education and clinical practice. He is also the Co-Founder and Director of the SHAPE Program in the Stanford Internal Medicine Residency Program and Co-Director of Clinical Reasoning at Stanford School of Medicine. He previously served as President for the Society of Hospital Medicine Bay Area and Director of the Rathmann Medical Education Fellowship.

List of publications: https://bit.ly/3eop95i

ClinicalTrials.Gov registration:

https://bit.ly/2TizOmD

https://bit.ly/2zeNBjJ

Media:

https://shorturl.at/rNU46

https://stanfordmedicine.box.com/s/jm3544zdwpihj6bstcv72x76zq9nuzbq

https://bit.ly/33MZa0O

https://bit.ly/3t8HE2u

https://wb.md/2zfjY1N

## CLINICAL FOCUS

- Internal Medicine
- Hospital Medicine

## ACADEMIC APPOINTMENTS

- Clinical Professor, Medicine

## ADMINISTRATIVE APPOINTMENTS

- Vice-Chair, RECOVER Coordinating Consortium, (2026- present)
- Co-Director, Clinical Reasoning, Stanford School of Medicine, (2023- present)
- Associate Course Director, Practice of Medicine Course, (2023-2026)
- Department of Medicine Team Science Division Representative, Stanford University Department of Medicine, (2023-2025)
- Director, Rathmann Fellowship in Medical Education, (2022-2026)
- Director, Medicine Procedure and Consult Services, (2018-2024)
- Course Co-Director, Advanced Clinical Skills, (2017-2023)
- Chief Resident, Stanford Internal Medicine Residency Program, (2016-2017)
- Director and Co-Founder, SHAPE Program (Hospitalist Training Track), (2014- present)

## HONORS AND AWARDS

- Lawrence H. Mathers Award for Exceptional Commitment to Teaching, Stanford University School of Medicine (2023)
- Research Mentor of the Year Award, Stanford University Department of Medicine (2023)
- David A Rytand Clinical Teaching Award, Stanford University Department of Medicine (2018, 2022, 2025)
- Henry J. Kaiser Foundation Award for Excellence in Teaching, Stanford University School of Medicine (2018, 2022)
- Award for Humanism & Excellence in Teaching, Arnold P. Gold Foundation (2017)
- Resident Teacher of the Year, Stanford Internal Medicine Residency Program (2016)
- Resident Teacher of the Year, Stanford Internal Medicine Residency Program (2015)
- Johns Hopkins National Housestaff Research Award, Johns Hopkins School of Medicine (2015)
- Julian Wolfsohn Award, Stanford Internal Medicine Residency Program (2014)
- Medical Jeopardy 1st Place, California ACP Chapter (2015)
- C. Thorpe Ray Internal Medicine Society Award, Tulane University School of Medicine (2013)
- Harold C. Cummins Award, Tulane University School of Medicine (2013)

### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Procedural Research and Innovation for Medical Educators (2022 - present)
- Member, RECOVER National Steering Committee (2021 - 2022)
- Member, Physicians in Training Committee, Society of Hospital Medicine (2022 - present)
- President, Society of Hospital Medicine Bay Area Chapter (2019 - present)

### PROFESSIONAL EDUCATION

- Medical Education: Tulane University School of Medicine (2013) LA
- Residency: Stanford University Internal Medicine Residency (2016) CA
- Master of Education, Stanford University , Education (2019)
- Board Certification: Internal Medicine, American Board of Internal Medicine (2016)
- Chief Residency, Stanford University , Internal Medicine
- Residency, Stanford University , Internal Medicine
- BS, University of Nevada , Biology

## Research & Scholarship

### CLINICAL TRIALS

- RECOVER-ENERGIZE Platform Protocol, Recruiting
- RECOVER-SLEEP: Platform Protocol, Appendix_A (Hypersomnia), Recruiting
- A Study to Evaluate the Safety and Efficacy of Tocilizumab in Patients With Severe COVID-19 Pneumonia, Not Recruiting
- ACTIV-5 / Big Effect Trial (BET-B) for the Treatment of COVID-19, Not Recruiting
- Adaptive COVID-19 Treatment Trial (ACTT), Not Recruiting
- Learning Outcomes With Point-of-Care Ultrasound, Not Recruiting
- Predicting Outcomes for Covid-19 Using Sonography, Not Recruiting
- RECOVER-VITAL: Platform Protocol to Measure the Effects of Antiviral Therapies on Long COVID Symptoms, Not Recruiting
- RECOVER-VITAL: Platform Protocol, Appendix to Measure the Effects of Paxlovid on Long COVID Symptoms, Not Recruiting
- Understanding the Long-term Impact of COVID-19 in Adults (RECOVER), Not Recruiting

## Publications

### PUBLICATIONS

- **Point-of-Care Ultrasound for the Diagnosis of Pneumonia.** *JAMA*
  Kumar, A., Le, M. T.
  2026
- **Creation of an Open-Access Lung POCUS Image Database for Deep Learning and Neural Network Applications.** *POCUS journal*
  Kumar, A., Nandakishore, P., Gordon, A. J., Baum, E., Madhok, J., Duanmu, Y., Kugler, J.
  2026; 11 (1): 62-67
- **Limited echocardiogram acquisition by novice clinicians aided with deep learning: A randomized controlled trial.** *Biology methods & protocols*
  Kumar, A., Baum, E., Parmer-Chow, C., Kugler, J.
  2025; 10 (1): bpaf083
- **Ultrasound-Guided Paracentesis.** *The New England journal of medicine*
  Kumar, A., Dancel, R., Galen, B. T., Patel, S. A., Ma, I. W., Cool, J. A.

2025; 393 (9): e11

- **How Chatbots and Large Language Model Artificial Intelligence Systems Will Reshape Modern Medicine: Fountain of Creativity or Pandora's Box?** *JAMA internal medicine*
  Li, R., Kumar, A., Chen, J. H.
  2023

- **Evaluation of Trainee Competency with Point-of-Care Ultrasonography (POCUS): a Conceptual Framework and Review of Existing Assessments** *JOURNAL OF GENERAL INTERNAL MEDICINE*
  Kumar, A., Kugler, J., Jensen, T.
  2019; 34 (6): 1025–31

- **Timing of Long COVID Improvement in Prospectively Followed RECOVER-Adult Participants.** *Annals of internal medicine*
  Reeder, H. T., Donohue, S. E., Martin, J. N., Hornig, M., Mosier, J. M., Ashktorab, H., Atieh, O., Blomkalns, A. L., Brim, H., Chen, Y., Cortez, M. M., Erdmann, N. B., Fang, et al
  2026

- **Public perspectives on artificial intelligence in healthcare in the USA: a cross-sectional survey.** *BMJ digital health & AI*
  Nair, V. P., Handler, R., Tandel, M. D., Weng, Y., Holdsworth, L. M., Goh, E., Sands, R. W., Steele, N. Z., Derry, L. T., Boutin, R. D., DeBell, M., Scott, T., Svec, et al
  2026; 2 (1): e000183

- **The Long road to AI-physician partnership starts with learners: a map for AI in medical education.** *BMJ digital health & AI*
  Patel, N., Kumar, A., Chi, J., Keet, K., Kugler, J., Hom, J., Hosamani, P.
  2026; 2 (1): e000056

- **Nirmatrelvir-ritonavir targeting viral persistence in post-COVID-19 condition (long COVID) in the USA (RECOVER-VITAL): a randomised, double-blind, placebo-controlled, phase 2 trial.** *The Lancet. Infectious diseases*
  Baden, L. R., Shah, N. S., Liu, S. T., Cohen, J., Moy, J., Kumar, A., McComsey, G. A., Chen, P., Floris-Moore, M., Singer, N. G., Fernandez, I., Slandzicki, A. J., Wiley, et al
  2026

- **Artificial Intelligence-Assisted Opportunistic Computed Tomography for Steatotic Liver Disease Detection and Association with Cardiovascular and Mortality Outcomes in Adults with Cardiometabolic Risk** *American Heart Association (AHA) Scientific Sessions*
  Derry, L. T., et al
  2026

- **Olfactory Dysfunction After SARS-CoV-2 Infection in the RECOVER Adult Cohort.** *JAMA network open*
  Horwitz, L. I., Becker, J. H., Huang, W., Akintonwa, T., Hornig-Rohan, M. M., Maranga, G., Adams, D. R., Albers, M. W., Ayache, M., Berry, J., Brim, H., Bryan, T. W., Charney, et al
  2025; 8 (9): e2533815

- **Point-counterpoint: What is the best strategy for developing generative AI for hospital medicine?** *Journal of hospital medicine*
  Kerman, H., Kumar, A., Crowe, B., Collins, W.
  2025

- **Sex Differences in Long COVID.** *JAMA network open*
  Shah, D. P., Thaweethai, T., Karlson, E. W., Bonilla, H., Horne, B. D., Mullington, J. M., Wisnivesky, J. P., Hornig, M., Shinnick, D. J., Klein, J. D., Erdmann, N. B., Brosnahan, S. B., Lee-Iannotti, et al
  2025; 8 (1): e2455430

- **2024 Update of the RECOVER-Adult Long COVID Research Index.** *JAMA*
  Geng, L. N., Erlandson, K. M., Hornig, M., Letts, R., Selvaggi, C., Ashktorab, H., Atieh, O., Bartram, L., Brim, H., Brosnahan, S. B., Brown, J., Castro, M., Charney, et al
  2024

- **2024 Update of the RECOVER-Adult Long COVID Research Index** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
  Geng, L. N., Erlandson, K. M., Hornig, M., Letts, R., Selvaggi, C., Ashktorab, H., Atieh, O., Bartram, L., Brim, H., Brosnahan, S. B., Brown, J., Castro, M., Charney, et al
  2024

- **Comparison of 6 handheld ultrasound devices by point-of-care ultrasound experts: a cross-sectional study.** *The ultrasound journal*
  Perez-Sanchez, A., Johnson, G., Pucks, N., Soni, R. N., Lund, T. J., Andrade, A. J., Le, M. T., Solis-McCarthy, J., Wong, T., Ashraf, A., Kumar, A. D., Banauch, G. I., Verner, et al
  2024; 16 (1): 45

- **Measurement of circulating viral antigens post-SARS-CoV-2 infection in a multicohort study.** *Clinical microbiology and infection : the official publication of the European Society of Clinical Microbiology and Infectious Diseases*
  Swank, Z., Borberg, E., Chen, Y., Senussi, Y., Chalise, S., Manickas-Hill, Z., Yu, X. G., Li, J. Z., Alter, G., Henrich, T. J., Kelly, J. D., Hoh, R., Goldberg, et al
  2024

- **Differentiation of Prior SARS-CoV-2 Infection and Postacute Sequelae by Standard Clinical Laboratory Measurements in the RECOVER Cohort.** *Annals of internal medicine*
  Erlandson, K. M., Geng, L. N., Selvaggi, C. A., Thaweethai, T., Chen, P., Erdmann, N. B., Goldman, J. D., Henrich, T. J., Hornig, M., Karlson, E. W., Katz, S. D., Kim, C., Cribbs, et al
  2024

- **Acquisition of Cardiac Point-of-Care Ultrasound Images With Deep Learning: A Randomized Trial for Educational Outcomes With Novices.** *CHEST pulmonary*
  Baum, E., Tandel, M. D., Ren, C., Weng, Y., Pascucci, M., Kugler, J., Cardoza, K., Kumar, A.
  2023; 1 (3): 100023

- **Chatbot vs Medical Student Performance on Free-Response Clinical Reasoning Examinations.** *JAMA internal medicine*
  Strong, E., DiGiammarino, A., Weng, Y., Kumar, A., Hosamani, P., Hom, J., Chen, J. H.
  2023

- **Researching COVID to Enhance Recovery (RECOVER) adult study protocol: Rationale, objectives, and design.** *PloS one*
  Horwitz, L. I., Thaweethai, T., Brosnahan, S. B., Cicek, M. S., Fitzgerald, M. L., Goldman, J. D., Hess, R., Hodder, S. L., Jacoby, V. L., Jordan, M. R., Krishnan, J. A., Laiyemo, A. O., Metz, et al
  2023; 18 (6): e0286297

- **Development of a Definition of Postacute Sequelae of SARS-CoV-2 Infection.** *JAMA*
  Thaweethai, T., Jolley, S. E., Karlson, E. W., Levitan, E. B., Levy, B., McComsey, G. A., McCorkell, L., Nadkarni, G. N., Parthasarathy, S., Singh, U., Walker, T. A., Selvaggi, C. A., Shinnick, et al
  2023

- **Medical Student Documentation Practices and Perspectives Following the 2018 CMS Billing Guidelines.** *Academic medicine : journal of the Association of American Medical Colleges*
  Farber, O. N., Dahlen, A., Kumar, A. D.
  2022; 97 (9): 1256

- **Improving the physical exam: a new assessment and evaluation tool for physical examination skills.** *Diagnosis (Berlin, Germany)*
  Artandi, M., Norcini, J., Garibaldi, B., Thadaney Israni, S., Kugler, J., Kumar, A., Russell, S.
  2022

- **Point-of-Care Ultrasound Predicts Clinical Outcomes in Patients With COVID-19.** *Journal of ultrasound in medicine : official journal of the American Institute of Ultrasound in Medicine*
  Kumar, A., Weng, I., Graglia, S., Lew, T., Gandhi, K., Lalani, F., Chia, D., Duanmu, Y., Jensen, T., Lobo, V., Nahn, J., Iverson, N., Rosenthal, et al
  2021

- **Lung Ultrasound Findings in Patients Hospitalized With COVID-19.** *Journal of ultrasound in medicine : official journal of the American Institute of Ultrasound in Medicine*
  Kumar, A., Weng, Y., Duanmu, Y., Graglia, S., Lalani, F., Gandhi, K., Lobo, V., Jensen, T., Chung, S., Nahn, J., Kugler, J.
  2021

- **Interobserver agreement of lung ultrasound findings of COVID-19.** *Journal of ultrasound in medicine : official journal of the American Institute of Ultrasound in Medicine*
  Kumar, A., Weng, Y., Graglia, S., Chung, S., Duanmu, Y., Lalani, F., Gandhi, K., Lobo, V., Jensen, T., Nahn, J., Kugler, J.
  2021

- **OrderRex clinical user testing: a randomized trial of recommender system decision support on simulated cases.** *Journal of the American Medical Informatics Association : JAMIA*

Kumar, A., Aikens, R. C., Hom, J., Shieh, L., Chiang, J., Morales, D., Saini, D., Musen, M., Baiocchi, M., Altman, R., Goldstein, M. K., Asch, S., Chen, et al
2020

- **Portable Ultrasound Device Usage and Learning Outcomes Among Internal Medicine Trainees: A Parallel-Group Randomized Trial.** *Journal of hospital medicine*
  Kumar, A., Weng, Y., Wang, L., Bentley, J., Almli, M., Hom, J., Witteles, R., Ahuja, N., Kugler, J.
  2020; 15 (2): e1–e6

- **Physician Usage and Acceptance of a Machine Learning Recommender System for Simulated Clinical Order Entry.** *AMIA Joint Summits on Translational Science proceedings. AMIA Joint Summits on Translational Science*
  Chiang, J., Kumar, A., Morales, D., Saini, D., Hom, J., Shieh, L., Musen, M., Goldstein, M. K., Chen, J. H.
  2020; 2020: 89–97

- **CMS Billing Guidelines and Student Documentation: a New Era or New Burden?** *JOURNAL OF GENERAL INTERNAL MEDICINE*
  Kumar, A., Chi, J.
  2019; 34 (4): 634–35

- **Evaluation of Trainee Competency with Point-of-Care Ultrasonography (POCUS): a Conceptual Framework and Review of Existing Assessments.** *Journal of general internal medicine*
  Kumar, A., Kugler, J., Jensen, T.
  2019

- **Thrombophilia testing in the inpatient setting: impact of an educational intervention.** *BMC medical informatics and decision making*
  Kwang, H. n., Mou, E. n., Richman, I. n., Kumar, A. n., Berube, C. n., Kaimal, R. n., Ahuja, N. n., Harman, S. n., Johnson, T. n., Shah, N. n., Witteles, R. n., Harrington, R. n., Shieh, et al
  2019; 19 (1): 167

- **Duty-Hour Flexibility Trial in Internal Medicine** *NEW ENGLAND JOURNAL OF MEDICINE*
  Kumar, A., Chi, J.
  2018; 379 (3): 300

- **The Role of Technology in the Bedside Encounter.** *The Medical clinics of North America*
  Kumar, A. n., Liu, G. n., Chi, J. n., Kugler, J. n.
  2018; 102 (3): 443–51

- **A high value care curriculum for interns: a description of curricular design, implementation and housestaff feedback** *POSTGRADUATE MEDICAL JOURNAL*
  Hom, J., Kumar, A., Evans, K. H., Svec, D., Richman, I., Fang, D., Smeraglio, A., Holubar, M., Johnson, T., Shah, N., Renault, C., Ahuja, N., Witteles, et al
  2017; 93 (1106): 725–29

- **A high value care curriculum for interns: a description of curricular design, implementation and housestaff feedback.** *Postgraduate medical journal*
  Hom, J. n., Kumar, A. n., Evans, K. H., Svec, D. n., Richman, I. n., Fang, D. n., Smeraglio, A. n., Holubar, M. n., Johnson, T. n., Shah, N. n., Renault, C. n., Ahuja, N. n., Witteles, et al
  2017

- **Magnitude of Potentially Inappropriate Thrombophilia Testing in the Inpatient Hospital Setting.** *Journal of hospital medicine*
  Mou, E. n., Kwang, H. n., Hom, J. n., Shieh, L. n., Kumar, A. n., Richman, I. n., Berube, C. n.
  2017; 12 (9): 735–38

- **The Illness of Present Histories.** *Academic medicine : journal of the Association of American Medical Colleges*
  Kumar, A. D., Chi, J. n.
  2017; 92 (4): 434–35

- **Prevalence and Financial Impact of Inappropriate Thrombophilia Testing in the Inpatient Hospital Setting: A Retrospective Analysis**
  Mou, E., Kwang, H., Hom, J., Shieh, L., Ahuja, N., Harman, S., Johnson, T., Kumar, A., Shah, N., Witteles, R., Berube, C.
  AMER SOC HEMATOLOGY.2016

- **A resident-created hospitalist curriculum for internal medicine housestaff.** *Journal of hospital medicine*

Kumar, A., Smeraglio, A., Witteles, R., Harman, S., Nallamshetty, S., Rogers, A., Harrington, R., Ahuja, N.
2016; 11 (9): 646-649

- **To Cure Sometimes, to Relieve Often, to Comfort Always.** *JAMA internal medicine*
  Kumar, A. n., Allaudeen, N. n.
  2016; 176 (6): 731–32
- **Incidence and financial impact of inappropriate thrombophilia testing in the inpatient hospital setting: a retrospective analysis.** *Blood*
  Mou, E., Kwang, H., Hom, J., Shieh, L., Ahuja, N., Harman, S., Johnson, T., Kumar, A., Shah, N., Witteles, R., Berube, C.
  2016; 128: 2330
- **Troubleshooting the NIHSS: question-and-answer session with one of the designers** *INTERNATIONAL JOURNAL OF STROKE*
  Martin-Schild, S., Siegler, J. E., Kumar, A. D., Lyden, P.
  2015; 10 (8): 1284-1286
- **Preparing to take the USMLE Step 1: a survey on medical students' self-reported study habits** *POSTGRADUATE MEDICAL JOURNAL*
  Kumar, A. D., Shah, M. K., Maley, J. H., Evron, J., Gyftopoulos, A., Miller, C.
  2015; 91 (1075): 257-261
- **Persistent Leukocytosis-Is this a Persistent Problem for Patients with Acute Ischemic Stroke?** *JOURNAL OF STROKE & CEREBROVASCULAR DISEASES*
  Boehme, A. K., Kumar, A. D., Lyerly, M. J., Gillette, M. A., Siegler, J. E., Albright, K. C., Beasley, T. M., Martin-Schild, S.
  2014; 23 (7): 1939-1943
- **Infections Present on Admission Compared with Hospital-Acquired Infections in Acute Ischemic Stroke Patients** *JOURNAL OF STROKE & CEREBROVASCULAR DISEASES*
  Boehme, A. K., Kumar, A. D., Dorsey, A. M., Siegler, J. E., Aswani, M. S., Lyerly, M. J., Monlezun, D. J., George, A. J., Albright, K. C., Beasley, T. M., Martin-Schild, S.
  2013; 22 (8): E582-E589
- **Leukocytosis in Patients with Neurologic Deterioration after Acute Ischemic Stroke is Associated with Poor Outcomes** *JOURNAL OF STROKE & CEREBROVASCULAR DISEASES*
  Kumar, A. D., Boehme, A. K., Siegler, J. E., Gillette, M., Albright, K. C., Martin-Schild, S.
  2013; 22 (7): E111-E117
- **Identification of Modifiable and Nonmodifiable Risk Factors for Neurologic Deterioration after Acute Ischemic Stroke** *JOURNAL OF STROKE & CEREBROVASCULAR DISEASES*
  Siegler, J. E., Boehme, A. K., Kumar, A. D., Gillette, M. A., Albright, K. C., Beasley, T. M., Martin-Schild, S.
  2013; 22 (7): E207-E213
- **What Change in the National Institutes of Health Stroke Scale Should Define Neurologic Deterioration in Acute Ischemic Stroke?** *JOURNAL OF STROKE & CEREBROVASCULAR DISEASES*
  Siegler, J. E., Boehme, A. K., Kumar, A. D., Gillette, M. A., Albright, K. C., Martin-Schild, S.
  2013; 22 (5): 675-682