Stanford



Husham Sharifi

Clinical Assistant Professor, Medicine - Pulmonary, Allergy & Critical Care Medicine

CLINICAL OFFICE (PRIMARY)

- **Medical Specialties Clinic**

  300 Pasteur Dr A175

  MC 5303

  Stanford, CA 94305

  Tel (650) 723-6961 **Fax** (650) 498-6288

Bio

BIO

I am a Clinical Assistant Professor in the Division of Pulmonary, Allergy, and Critical Care Medicine in Stanford University School of Medicine. In addition to seeing patients in the intensive care unit (ICU), I focus my research and clinical practice on transplant-related pulmonary fibrosis, which includes fibrotic lung disease after lung transplant or after hematopoietic cell transplant. My research applies advanced computational analysis to clinical metadata and quantitative imaging data, domains that draw on my training in engineering and bioinformatics. In the clinical setting I see patients in a Lung Graft-versus-Host-Disease (GVHD) Clinic for individuals with pulmonary complications after life-saving hematopoietic cell transplant. Our clinic is part of a national Lung GVHD Consortium comprising Stanford, Fred Hutchinson Cancer Center, University of Michigan, and MD Anderson Cancer Center. In this context I am the site co-Principal Investigator for two national clinical trials through the Lung GVHD Consortium that are funded by the National Institutes of Health. The first trial uses a home spirometry device and monitoring system to study the association of Lung GVHD with respiratory viral infections. The second trial studies the diagnostic and prognostic utility of quantitative CT scans of the chest for Lung GVHD. My goal is to fuse detailed, communicative patient care with the advances of data science in medicine that I research and study.

I lead the chest imaging subgroup of the International Lung GVHD Consensus Project, an international effort convening in Geneva in September 2026 to revise the NIH diagnostic criteria for lung GVHD across the lifespan. Our subgroup is responsible for defining the role of chest imaging within those criteria, spanning the diagnostic requirements for CT, low-dose and novel imaging modalities, quantitative and AI-based image analysis, the relationship between imaging and bronchoscopic diagnosis, and the imaging characteristics of interstitial lung disease after transplant.

You can see my website at https://www.sharifi.com/.

CLINICAL FOCUS

- Critical Care
- Critical Care Medicine

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Medicine - Pulmonary, Allergy & Critical Care Medicine

PROFESSIONAL EDUCATION

- Residency: Yale New Haven Hospital (2013) CT
- Fellowship, Stanford University Medical Center , Pulmonary and Critical Care
- Residency, Yale New Haven Hospital , Internal Medicine
- MD, Yale University School of Medicine
- MS, Stanford University , Bioinformatics
- MS, Massachusetts Institute of Technology , Engineering
- MS, Massachusetts Institute of Technology , Technology and Policy

Research & Scholarship

CLINICAL TRIALS

- Parametric Response Mapping (PRM) for the Detection of Chronic Lung Injury in Hematopoietic Cell Transplant Recipients, Recruiting

Publications

PUBLICATIONS

- **Lung Complications after Allogeneic Hematopoietic Cell Transplant and Outcomes: Implications Beyond Bronchiolitis Obliterans Syndrome.** *Transplantation and cellular therapy*
  Lai, Y. K., Sharifi, H., Arai, S., Scheck, A., Brondstetter, T., Epstein, D. J., Hsu, J. L.
  2026
- **Use of Home Spirometry for Steroid Tapering.** *Respirology case reports*
  Musa, Z., Moss, C. T., Borges, C. D., Sharifi, H., Hsu, J.
  2026; 14 (6): e70607
- **Elastic parametric response mapping: localising reversible small airway disease in COPD.** *Thorax*
  Sharifi, H., Robinson, T. E., Moats, R., Guo, H. H.
  2026
- **Noninfectious pulmonary complications after hematopoietic cell transplantation: a comprehensive review.** *Respiratory medicine*
  Bertini, C., Soto, F., Brown, R., Bashoura, L., Cheng, G. S., Hensley, M. K., Hsu, J., Lai, Y. K., Sharifi, H., Sturek, J. M., Yanik, G. A., Yadav, H., Faiz, et al
  2025: 108336
- **Bronchiectasis in bronchiolitis obliterans syndrome after hematopoietic cell transplantation.** *Transplantation and cellular therapy*
  Epstein, D. J., Rodriguez-Ormaza, N., Sharifi, H., Lai, Y. K., Guo, H. H., Borges, C. H., Omar, S. H., Sahota, A., Dhillon, E. S., Musa, Z. M., Moss, C. T., Chatterjee, P., Hofmann, et al
  2025
- **Addressing Knowledge Gaps in the Early Detection of Bronchiolitis Obliterans Syndrome After Hematopoietic Cell Transplantation. An Official American Thoracic Society Research Statement.** *American journal of respiratory and critical care medicine*
  Cheng, G., Sheshadri, A., Turner, J., Williams, K. M., Hsu, J. L., Agoritsas, T., Ali, M. H., Bondeelle, L., Bouguet, G., Chanez, P., Cooke, K. R., Galban, C. J., Goldfarb, et al
  2025
- **Pirfenidone for the treatment of bronchiolitis obliterans syndrome related to chronic graft-versus-host disease.** *Blood advances*
  Sharifi, H., Moss, C. T., Musa, Z., Bell, A., O'Donnell, C., Borges, C., Matthaiou, E. I., Johnston, L., Galban, C., Sheshadri, A., Yanik, G. A., Cheng, G. S., Hsu, et al
  2025

- **Inflammatory markers and microbiome dysbiosis in hematopoietic cell transplant recipients with lung graft-versus-host disease.** *Transplantation and cellular therapy*
  Brehm, V., Wang, Z., Rocha, L., Jones, B., Jenq, R. R., Chang, C., Cheng, G., Hsu, J., Sharifi, H., Yanik, G., Luna, L., Waqar, A., Zaveri, et al
  2025

- **Comparative Outcomes of Hydrus Microstent Implant Versus Fellow Eye iStent Inject in Primary Open Angle Glaucoma Patients: A Case Series**
  Mazdeyasnan, L., Sharifi, H., Sharifi, E.
  ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2025

- **Restrictive Ventilatory Defect Following Hematopoietic Stem Cell Transplant Is Associated With Increased Mortality.** *Transplantation and cellular therapy*
  Alkhunaizi, M., Soto, F., Leung, C. H., Bhan, N., Bashoura, L., Dickey, B. F., Sharifi, H., Cheng, G., Yanik, G., Rondon, G., Saliba, R., Chen, G., Al-Atrash, et al
  2025

- **Discordant High Activated Partial Thromboplastin Time Relative to Anti-Xa Values in Hospitalized Patients is an Independent Risk Factor for Increased 30-day Mortality.** *Seminars in thrombosis and hemostasis*
  Jin, J., Gummidipundi, S., Hsu, J., Sharifi, H., Boothroyd, D., Krishnan, A., Zehnder, J. L.
  2024

- **CT strain metrics allow for earlier diagnosis of bronchiolitis obliterans syndrome after hematopoietic cell transplant.** *Blood advances*
  Sharifi, H., Bertini, C. D., Alkhunaizi, M., Hernandez, M. P., Musa, Z., Borges, C., Turk, I., Bashoura, L., Dickey, B. F., Cheng, G. S., Yanik, G. A., Galban, C., Guo, et al
  2024

- **How I diagnose and treat organizing pneumonia in hematopoietic cell transplant recipients.** *Blood*
  Lai, Y. K., Sharifi, H., Hsu, J. L.
  2024

- **Variables associated with antibiotic treatment tolerance in patients with Mycobacterium avium complex pulmonary disease.** *Respiratory research*
  Marmor, M., Sharifi, H., Jacobs, S., Fazeli, K., Ruoss, S.
  2024; 25 (1): 123

- **Coronavirus Disease-2019 Pneumonia: Clinical Manifestations.** *Clinics in chest medicine*
  Sharifi, H., Hsu, J.
  2023; 44 (2): 227-237

- **Opportunistic Screening for Atrial Fibrillation on Routine Chest Computed Tomography.** *Journal of thoracic imaging*
  Parker, W. A., Vigneault, D. M., Yang, I., Bratt, A., Marquardt, A. C., Sharifi, H., Guo, H. H.
  2023

- **Myalgic Encephalomyelitis/Chronic Fatigue Syndrome is common in post-acute sequelae of SARS-CoV-2 infection (PASC): Results from a post-COVID-19 multidisciplinary clinic.** *Frontiers in neurology*
  Bonilla, H., Quach, T. C., Tiwari, A., Bonilla, A. E., Miglis, M., Yang, P. C., Eggert, L. E., Sharifi, H., Horomanski, A., Subramanian, A., Smirnoff, L., Simpson, N., Halawi, et al
  2023; 14: 1090747

- **alphavbeta6 Integrin Positron Emission Tomography of Lung Fibrosis in Idiopathic Pulmonary Fibrosis and Long-COVID.** *American journal of respiratory and critical care medicine*
  Kimura, R. H., Sharifi, H., Shen, B., Berry, G. J., Guo, H. H.
  2023

- **Epidemiology of lower respiratory tract infections and community-acquired respiratory viruses in patients with bronchiolitis obliterans syndrome after hematopoietic cell transplant: a retrospective cohort study.** *Transplantation and cellular therapy*
  Epstein, D. J., Liang, E. C., Sharifi, H., Lai, Y. K., Arai, S., Graber-Naidich, A., Sundaram, V., Nelson, J., Hsu, J. L.
  2022

- **Graft-versus-host disease may cause pulmonary restriction, but not all restriction is graft-versus-host disease.** *Blood advances*
  Sheshadri, A., Huang, H. J., Bashoura, L., Alousi, A. M., Alkhunaizi, M. A., Sharifi, H., Hsu, J. L.

2022

- **The safety and tolerability of pirfenidone for bronchiolitis obliterans syndrome after hematopoietic cell transplant (STOP-BOS) trial.** *Bone marrow transplantation*
  Matthaiou, E. I., Sharifi, H., O'Donnell, C., Chiu, W., Owyang, C., Chatterjee, P., Turk, I., Johnston, L., Brondstetter, T., Morris, K., Cheng, G., Hsu, J. L.
  2022

- **Head-to-head Comparison of Qualitative Radiologist Assessment With Automated Quantitative Computed Tomography Analysis for Bronchiolitis Obliterans Syndrome After Hematopoietic Cell Transplantation.** *Journal of thoracic imaging*
  Sharifi, H., Guenther, Z. D., Leung, A. N., Johnston, L., Lai, Y. K., Hsu, J. L., Guo, H. H.
  2021

- **The Use of Factor Eight Inhibitor Bypass Activity (FEIBA) for the Treatment of Perioperative Hemorrhage in Left Ventricular Assist Device Implantation.** *Journal of cardiothoracic and vascular anesthesia*
  O'Donnell, C., Rodriguez, A. J., Madhok, J., Sharifi, H., Wang, H., O'Brien, C. G., Boyd, J., Hiesinger, W., Hsu, J., Hill, C. C.
  2021

- **THE SAFETY AND EFFICACY OF PERIOPERATIVE FEIBA AFTER LEFT VENTRICULAR ASSIST DEVICE IMPLANTATION**
  ODonnell, C., Rodriguez, A., Madhok, J., Wang, H., Shad, R., Sharifi, H., Boyd, J., William, H., Hsu, J., Hill, C.
  LIPPINCOTT WILLIAMS & WILKINS.2021: 168

- **Radiology-pathology Correlation in Recovered COVID-19, Demonstrating Organizing Pneumonia.** *American journal of respiratory and critical care medicine*
  Pogatchnik, B. P., Swenson, K. E., Sharifi, H. n., Bedi, H. n., Berry, G. J., Guo, H. H.
  2020

- **Machine learning algorithms to differentiate among pulmonary complications after hematopoietic cell transplant.** *Chest*
  Sharifi, H. n., Lai, Y. K., Guo, H. n., Hoppenfeld, M. n., Guenther, Z. D., Johnston, L. n., Brondstetter, T. n., Chhatwani, L. n., Nicolls, M. R., Hsu, J. L.
  2020

- **Predicting the Incidence of Pressure Ulcers in the Intensive Care Unit Using Machine Learning.** *EGEMS (Washington, DC)*
  Cramer, E. M., Seneviratne, M. G., Sharifi, H., Ozturk, A., Hernandez-Boussard, T.
  2019; 7 (1): 49

- **Association between Inhaled Corticosteroid Use and Pulmonary Nontuberculous Mycobacterial Infection** *ANNALS OF THE AMERICAN THORACIC SOCIETY*
  Liu, V. X., Winthrop, K. L., Lu, Y., Sharifi, H., Nasiri, H. U., Ruoss, S. J.
  2018; 15 (10): 1169–76

- **Analysis of Hypoxic and Hypercapnic Ventilatory Response in Healthy Volunteers** *PLOS ONE*
  Goldberg, S., Ollila, H. M., Lin, L., Sharifi, H., Rico, T., Andlauer, O., Aran, A., Bloomrosen, E., Faraco, J., Fang, H., Mignot, E.
  2017; 12 (1)

- **Cost-effectiveness analysis of periacetabular osteotomy.** *journal of bone and joint surgery. American volume*
  Sharifi, E., Sharifi, H., Morshed, S., Bozic, K., Diab, M.
  2008; 90 (7): 1447-1456

- **Cost-effectiveness analysis of unicompartmental knee arthroplasty as an alternative to total knee arthroplasty for unicompartmental osteoarthritis.** *journal of bone and joint surgery. American volume*
  SooHoo, N. F., Sharifi, H., Kominski, G., Lieberman, J. R.
  2006; 88 (9): 1975-1982

- **Cost-effectiveness analysis of core decompression** *JOURNAL OF ARTHROPLASTY*
  SooHoo, N. F., Vyas, S., Manunga, J., Sharifi, H., Kominski, G., Lieberman, J. R.
  2006; 21 (5): 670-681