Stanford



Arthur Sung, MD, FCCP

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

CLINICAL OFFICE (PRIMARY)

- **Pulmonary and Critical Care**

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Bio

BIO

Dr. Sung is a highly esteemed, fellowship-trained interventional pulmonologist and a fellow of the American College of Chest Physicians.

He is the senior associate chief of the Stanford Medicine Division of Pulmonary, Allergy and Critical Care Medicine. He founded the interventional pulmonology and bronchoscopy for Stanford Medicine in 2013. With Stanford University School of Medicine, he is a clinical associate professor of medicine – pulmonary, allergy and critical care medicine.

In his clinical practice, Dr. Sung delivers care at Stanford Medicine sites in both Palo Alto, Emeryville and Livermore. He is a recognized expert in the diagnosis and treatment of conditions involving the chest and lungs, including complex airway diseases.

Patients praise the quality of his care and excellent listening skills. They highlight his ability to answer questions and to explain medical conditions and treatment options clearly and compassionately.

To advance the field of pulmonology, Dr. Sung is conducting research in airways diseases. He is a principal investigator of a study of variables in computed tomography imaging used to support diagnostic and treatment approaches. He previously served as the site principal investigator for lung volume reduction procedure for COPD.

Dr. Sung has co-authored articles published in the Journal of Thoracic Oncology, Clinical Lung Cancer, Journal of Thoracic Imaging, Chest, and elsewhere. Topics have included innovations in therapy for pneumonitis and robotic surgical treatment of lung tumors.

He has written chapters for books such as Principles and Practice of Interventional Pulmonology, Examination of the Larynx through the Bronchoscope, and Airway Anatomy for the Bronchoscopist.

Dr. Sung has made presentations to the American Thoracic Society, American College of Chest Physicians, and American Association of Bronchology and Interventional Pulmonology. Topics have included lung cancer staging in the era of personalized medicine.

Dr. Sung has earned recognition from the College of Chest Physicians. The Stanford Leadership Program has recognized his achievements. From the Stanford University Bio-X program, he received a grant to study ultrasound-guided lung biopsy procedures. The Bio-X program fosters interdisciplinary collaboration among biomedical and life science researchers, clinicians, engineers, physicists, and computational scientists.

He is a member of the American Thoracic Society, American College of Chest Physicians, and American Association of Bronchology and Interventional Pulmonology. He has volunteered his time and expertise to deliver health care services to those in need. New Orleans Mayor Ray Nagins honored Dr. Sung for providing care to victims of Hurricane Katrina.

CLINICAL FOCUS

- Cancer > Thoracic Oncology
- Interventional Pulmonology
- Pleural Diseases
- Solitary Lung nodule
- Pulmonary Disease

ACADEMIC APPOINTMENTS

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

PROFESSIONAL EDUCATION

- Medical Education: New York Medical College (1999) NY
- Board Certification: Pulmonary Disease, American Board of Internal Medicine (2019)
- Board Certification: Critical Care Medicine, American Board of Internal Medicine (2019)
- Fellowship: Tulane University Hospital and Clinics (2005) LA
- Fellowship: Stanford University Pulmonary and Critical Care Fellowship (2005) CA
- Residency: Kaiser Permanente at Santa Clara (2002) CA
- Fellowship: Beth Israel Deaconess Med Center/Harvard (2006) MA

Research & Scholarship

CLINICAL TRIALS

- A Multi-Center Trial of the ProLung Test™, Not Recruiting

Publications

PUBLICATIONS

- **Development of a Prognostic Survival Risk Score for Lung Cancer Patients With Type 2 Diabetes Mellitus: A Territory-Wide Retrospective Cohort Study.** *Cancer medicine*
  Zhong, C. C., Huang, J., Li, Z., Jiang, Y., Yang, Z., Yuan, J., Huang, X., Liu, X., Wang, H., Poon, J., Dou, Q., Sung, A., Wong, et al
  2026; 15 (9): e72164

- **Phenotyping EMT and MET cellular states in lung cancer patient liquid biopsies at a personalized level using mass cytometry.** *Scientific reports*
  Karacosta, L. G., Pancirer, D., Preiss, J. S., Benson, J. A., Trope, W., Shrager, J. B., Sung, A. W., Neal, J. W., Bendall, S. C., Wakelee, H., Plevritis, S. K.

2023; 13 (1): 21781

- **Unilateral diaphragmatic paralysis after stereotactic ablative radiotherapy to a lung tumor abutting the course of the phrenic nerve.** *Practical radiation oncology*
  Eke, I., Guo, H. H., Loo, J. B., Sung, A. W., Diehn, M., Vitzthum, L., Chin, A. L., Gensheimer, M. F.
  2023

- **Genomic Profiling of Bronchoalveolar Lavage Fluid in Lung Cancer.** *Cancer research*
  Nair, V. S., Hui, A. B., Chabon, J. J., Shahrokh Esfahani, M., Stehr, H., Nabet, B. Y., Zhou, L., Chaudhuri, A. A., Benson, J. A., Ayers, K., Bedi, H., Ramsey, M. C., Van Wert, et al
  2022

- **The Value of Endobronchial Ultrasound Guided-Fine Needle Aspiration in Research Biobanking**
  Miyakawa-Liu, M., Lundi, L., Padda, S., Leuenberger, D., Sung, A., Ramsey, M., Nair, V., Bedi, H., Ozawa, M.
  SPRINGERNATURE.2022: 286-287

- **The Value of Endobronchial Ultrasound Guided-Fine Needle Aspiration in Research Biobanking**
  Miyakawa-Liu, M., Lundi, L., Padda, S., Leuenberger, D., Sung, A., Ramsey, M., Nair, V., Bedi, H., Ozawa, M.
  SPRINGERNATURE.2022: 286-287

- **Use of home pulse oximetry with daily short message service messages for monitoring outpatients with COVID-19: The patient's experience** *DIGITAL HEALTH*
  Vaughan, L., Eggert, L. E., Jonas, A., Sung, A., Singer, S.
  2021; 7: 20552076211067651

- **American Association for Bronchology and Interventional Pulmonology (AABIP) Statement on the Use of Bronchoscopy and Respiratory Specimen Collection in Patients With Suspected or Confirmed COVID-19 Infection** *JOURNAL OF BRONCHOLOGY & INTERVENTIONAL PULMONOLOGY*
  Wahidi, M. M., Lamb, C., Murgu, S., Musani, A., Shojaee, S., Sachdeva, A., Maldonado, F., Mahmood, K., Kinsey, M., Sethi, S., Mahajan, A., Majid, A., Keyes, et al
  2020; 27 (4): E52–E54

- **CommNETs/NANETS guidelines for the diagnosis and management of patients with Lung Neuroendocrine Tumors: An international collaborative endorsement and update of the 2015 ENETS expert consensus guidelines.** *Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer*
  Singh, S., Bergsland, E. K., Card, C. M., Hope, T. A., Kunz, P. L., Laidley, D. T., Lawrence, B., Leyden, S., Metz, D. C., Michael, M., Modahl, L. E., Myrehaug, S., Padda, et al
  2020

- **COVID-19 Test Correlation Between Nasopharyngeal Swab and Bronchoalveolar Lavage in Asymptomatic Patients.** *Chest*
  Chang, J. n., Swenson, K. E., Sung, A. n., Bedi, H. n.
  2020

- **Single-Lumen Endotracheal Tube and Bronchial Blocker for Airway Management During Tracheobronchoplasty for Tracheobronchomalacia: A Case Report.** *A&A practice*
  Lui, N. S., Guo, H. H., Sung, A. W., Peterson, A., Kulkarni, V. N.
  2019

- **Steroid-Sparing Therapy for Tyrosine Kinase Inhibitor-Induced Pneumonitis.** *Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer*
  Sun, T. Y., Sung, A. W., Neal, J. W.
  2019; 14 (4): e75-e77

- **Steroid-Sparing Therapy for Tyrosine Kinase Inhibitor-Induced Pneumonitis** *JOURNAL OF THORACIC ONCOLOGY*
  Sun, T., Sung, A. W., Neal, J. W.
  2019; 14 (4): E75–E77

- **Predictors of Respiratory Decline Following Stereotactic Ablative Radiotherapy to Multiple Lung Tumors.** *Clinical lung cancer*
  Moding, E. J., Liang, R. n., Lartey, F. M., Maxim, P. G., Sung, A. n., Diehn, M. n., Loo, B. W., Gensheimer, M. F.
  2019

- **First Human Use of a New Robotic-Assisted Fiber Optic Sensing Navigation System for Small Peripheral Pulmonary Nodules.** *Respiration; international review of thoracic diseases*
  Fielding, D. I., Bashirzadeh, F. n., Son, J. H., Todman, M. n., Chin, A. n., Tan, L. n., Steinke, K. n., Windsor, M. N., Sung, A. W.
  2019: 1–9

- **A Multicenter Randomized Controlled Trial of Zephyr Endobronchial Valve Treatment in Heterogeneous Emphysema (LIBERATE)** *AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE*
  Criner, G. J., Sue, R., Wright, S., Dransfield, M., Rivas-Perez, H., Wiese, T., Sciurba, F. C., Shah, P. L., Wahidi, M. M., de Oliveira, H., Morrissey, B., Cardoso, P. F. G., Hays, et al
  2018; 198 (9): 1151–64

- **Twelve-month positive outcomes of Zephyr endobronchial valves in severe emphysema patients: LIBERATE trial**
  Slebos, D., Wright, S., Sue, R., Dransfield, M., Rivas-Perez, H., Wiese, T., Sciurba, F., Shah, P., Wahidi, M., De Oliviera, H., Morrissey, B., Cardoso, P., Hays, et al
  EUROPEAN RESPIRATORY SOC JOURNALS LTD.2018

- **Improving Quality of Dynamic Airway Computed Tomography Using an Expiratory Airflow Indicator Device.** *Journal of thoracic imaging*
  Hahn, L. D., Sung, A. W., Shafiq, M. n., Guo, H. H.
  2018

- **Airway Anatomy for the Bronchoscopist** *INTRODUCTION TO BRONCHOSCOPY, 2ND EDITION*
  Hill, S., Kumaran, R., Sung, A., Ernst, A.
  edited by Ernst, A., Herth, F. J.
  2017: 45–54

- **Tracheal Diverticulum Following Paratracheal Hypofractionated Radiotherapy in the Setting of Prior and Subsequent Bevacizumab.** *Cure¯us*
  Chaudhuri, A. A., Chen, J. J., Carter, J. N., Binkley, M. S., Kumar, K. A., Dudley, S. A., Sung, A. W., Loo, B. W.
  2016; 8 (4)

- **Quantitative Emphysema Score as a Predictor of Morbidity in Transthoracic Needle Aspiration Biopsy**
  Gonzales, N., Wang, D., Holty, J., Kuschner, W., Raffy, P., Laeseke, P., Shah, R., Sung, A., Van Wert, R.
  AMER COLL CHEST PHYSICIANS.2015

- **Interventional Pulmonologist Perspective: Treatment of Malignant Pleural Effusion** *CURRENT TREATMENT OPTIONS IN ONCOLOGY*
  Sweatt, A. J., Sung, A.
  2014; 15 (4): 625-643

- **Interventional pulmonologist perspective: treatment of malignant pleural effusion.** *Current treatment options in oncology*
  Sweatt, A. J., Sung, A.
  2014; 15 (4): 625-643

- **Interventional pulmonology approaches in the diagnosis and treatment of early stage non small cell lung cancer** *TRANSLATIONAL LUNG CANCER RESEARCH*
  Tofts, R., Lee, P. M. J., Sung, A.
  2013; 2 (5): 316–31

- **Simvastatin enhances bone morphogenetic protein receptor type II expression** *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*
  Hu, H., Sung, A., Zhao, G. H., Shi, L. F., Qiu, D. M., Nishmura, T., Kao, P. N.
  2006; 339 (1): 59-64