Stanford



Harmeet Bedi

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

CLINICAL OFFICE (PRIMARY)

- **Stanford Health Care**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

BIO

Dr. Harmeet Bedi is the Director of Interventional Pulmonology & Bronchoscopy at Stanford University. His expertise is in minimally invasive techniques used in the diagnosis and treatment of various airway and lung diseases such as lung cancer, benign & malignant airway obstruction, and pleural diseases. He specializes in rigid & flexible bronchoscopy, robotic bronchoscopy, airway stent placement, balloon bronchoplasty, endobronchial ultrasound (EBUS), and various pleural procedures. He also specializes in a variety of tumor ablative therapies including laser therapy, electrocautery, argon plasma coagulation (APC), brachytherapy, and cryotherapy.

He founded the cone-beam computed tomography (CBCT) - guided bronchoscopy program at Stanford in 2019. CBCT-guided bronchoscopy is a novel and cutting-edge technique which combines bronchoscopy with CT imaging, allowing for improved localization and diagnosis of peripheral lung nodules. Additionally, CBCT-guided bronchoscopy will allow for numerous potential cancer therapies that are currently under development.

Dr. Bedi is a principal investigator and co-investigator on multiple clinical trials related to bronchoscopy, thoracic imaging, pulmonary nodules, and lung cancer. Specifically, he has multiple research interests within the realm of bronchoscopic device innovation and CBCT-guided bronchoscopy.

CLINICAL FOCUS

- Interventional Pulmonology
- Thoracic Oncology
- Rigid & Flexible Bronchoscopy
- Robotic Bronchoscopy
- Airway Obstruction (Tracheal and Bronchial)
- Lung Nodules
- Lung Cancer
- Pleural Disease
- Lung Transplant Complications

- Critical Care Medicine

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Medicine - Pulmonary, Allergy & Critical Care Medicine
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Director, Interventional Pulmonology & Bronchoscopy, (2021- present)
- Program Director, Interventional Pulmonology Fellowship, (2021-2024)

HONORS AND AWARDS

- Teaching Award, Division of Pulmonary & Critical Care Medicine (2018)
- Mentorship Award, Stanford Biodesign Fellowship Program (2018)
- Mentorship Award, Stanford Biodesign Fellowship Program (2017)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American College of Chest Physicians (2012 - present)
- Member, American Thoracic Society (2012 - present)
- Member, American Association of Bronchology and Interventional Pulmonology (2014 - present)

PROFESSIONAL EDUCATION

- Board Certification: Interventional Pulmonology, American Association for Bronchology and Interventional Pulmonology (2017)
- Board Certification: Internal Medicine, American Board of Internal Medicine (2024)
- Board Certification: Pulmonary Disease, American Board of Internal Medicine (2024)
- Board Certification: Critical Care Medicine, American Board of Internal Medicine (2024)
- Board Certification, American Association of Bronchology and Interventional Pulmonology , Interventional Pulmonology (2016)
- Board Certification, American Board of Internal Medicine , Critical Care Medicine (2015)
- Board Certification, American Board of Internal Medicine , Pulmonary Medicine (2014)
- Board Certification, American Board of Internal Medicine , Internal Medicine (2012)
- Fellowship, Henry Ford Hospital , Interventional Pulmonology (2016)
- Fellowship, Loma Linda University , Pulmonary & Critical Care Medicine (2015)
- Residency, Loma Linda University , Internal Medicine (2012)
- MD, Government Medical College, Patiala (2007)

LINKS

- Get a Second Opinion: https://stanfordhealthcare.org/second-opinion/overview.html

Research & Scholarship

CLINICAL TRIALS

- Identification and Characterization of Novel Proteins and Genes in Head and Neck Cancer, Recruiting
- Multidimensional and Multimodal Profiling of Oropharyngeal Carcinoma, Recruiting

Publications

PUBLICATIONS

- **Robotic-assisted bronchoscopy for lung nodules and masses - can it replace CT-guided transthoracic biopsy?** *Current opinion in pulmonary medicine*
  Ko, J., Bedi, H., Chang, J.
  2026

- **Cone Beam Computed Tomography-Guided Bronchoscopy versus Computed Tomography-Guided Transthoracic Needle Biopsy for Peripheral Pulmonary Lesion Diagnosis.** *Chest*
  Patel, P., Ost, D. E., Shaller, B., Chang, J., Yenepalli, A., Choi, H. J., Free, D., Kang, C. Y., Sumner, E., Cao, C., Bedi, H.
  2026

- **State of the art: peripheral diagnostic bronchoscopy.** *Journal of thoracic disease*
  Sumner, E. T., Chang, J., Patel, P. R., Bedi, H., Shaller, B. D.
  2024; 16 (8): 5409-5421

- **Added Value of a Robotic-assisted Bronchoscopy Platform in Cone Beam Computed Tomography-guided Bronchoscopy for the Diagnosis of Pulmonary Parenchymal Lesions.** *Journal of bronchology & interventional pulmonology*
  Shaller, B. D., Duong, D. K., Swenson, K. E., Free, D., Bedi, H.
  2024; 31 (3)

- **VENTILATOR WAVEFORM ANALYSIS: THE SQUARE ROOT SIGN IN A PATIENT WITH A TRACHEAL-PLEURAL FISTULA**
  Rozenbaum, D., Wingo, M., Patel, P., Nassar, A., Bedi, H., Lui, N.
  LIPPINCOTT WILLIAMS & WILKINS.2024

- **Immediate and Follow-up Imaging Findings after Cone-Beam CT-guided Transbronchial Lung Cryobiopsy.** *Radiology. Cardiothoracic imaging*
  Pogatchnik, B. P., Swenson, K. E., Duong, D. K., Shaller, B., Bedi, H., Guo, H. H.
  2023; 5 (2): e220149

- **Foreign Bodies in the Airway: Endoscopic Methods** *Interventions in Pulmonary Medicine*
  Simoff, M., Bedi, H., Eperjesiova, B.
  edited by Diaz-Jimenez, J., Rodriquez, A..2023; 3rd

- **Diagnostic value of bronchoscopy in Sars-Cov-2 infection: A systematic review** *JOURNAL OF THE PAKISTAN MEDICAL ASSOCIATION*
  Raza, H., Raja, M., Bain, P., Bedi, H., Salam, R., Jamil, B., Shafiq, M.
  2023; 73 (1): 98-105

- **Endobronchial Ultrasound-guided Transbronchial Needle Aspiration of Primary Cardiac Synovial Sarcoma of the Left Ventricle.** *American journal of respiratory and critical care medicine*
  Irfan, H., Filsuf, D., Mooney, K. L., Bedi, H., Shaller, B. D.
  2022

- **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

- **Systemic arterial gas embolism (SAGE) as a complication of bronchoscopic lung biopsy: a case report and systematic literature review** *JOURNAL OF THORACIC DISEASE*
  Swenson, K. E., Shaller, B. D., Duong, K., Bedi, H.
  2021

- **Predicting Lymph Node Metastasis in Non-Small Cell Lung Cancer: Prospective External and Temporal Validation of the HAL and HOMER Models.** *Chest*

Martinez-Zayas, G., Almeida, F. A., Yarmus, L., Steinfort, D., Lazarus, D. R., Simoff, M. J., Saettele, T., Murgu, S., Dammad, T., Duong, D. K., Mudambi, L., Filner, J. J., Molina, et al

2021

- **Commentary: An innovative, minimally-invasive approach to post-pneumonectomy bronchopleural fistula.** *JTCVS techniques*
  Elliott, I. A., Bedi, H. S., Lui, N. S.
  2020; 4: 351-352

- **Key Highlights from the AABIP Evidence-Informed Guidelines and Expert Panel Report for the Management of Indwelling Pleural Catheters.** *Chest*
  Miller, C. R., Chrissian, A. A., Lee, Y. C., Rahman, N. M., Wahidi, M. M., Tremblay, A., Hsia, D. W., Almeida, F. A., Shojaee, S., Mudambi, L., Belanger, A. R., Bedi, H., Gesthalter, et al
  2020

- **AABIP Evidence-Informed Guidelines and Expert Panel Report for the Management of Indwelling Pleural Catheters.** *Journal of bronchology & interventional pulmonology*
  Miller, C. R., Chrissian, A. A., Lee, Y. C., Rahman, N. M., Wahidi, M. M., Tremblay, A., Hsia, D. W., Almeida, F. A., Shojaee, S., Fccp, Mudambi, L., Belanger, A. R., Bedi, H., 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

- **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

- **Foreign Bodies in the Airway: Endoscopic Methods** *Interventions in Pulmonary Medicine*
  Simoff, M., Bedi, H.
  edited by Diaz-Jimenez, J., Rodriquez, A.
  Springer.2018; 2nd: 547–569

- **Microhemorrhage-associated tissue iron enhances the risk forAspergillus fumigatusinvasion in a mouse model of airway transplantation.** *Science translational medicine*
  Hsu, J. L., Manouvakhova, O. V., Clemons, K. V., Inayathullah, M. n., Tu, A. B., Sobel, R. A., Tian, A. n., Nazik, H. n., Pothineni, V. R., Pasupneti, S. n., Jiang, X. n., Dhillon, G. S., Bedi, et al
  2018; 10 (429)

- **Innovative use of a Montgomery cannula in the bronchoscopic management of tracheal stenosis and failed tracheostomy decannulation.** *Respiratory medicine case reports*
  Huang, H. n., Chen, C. n., Bedi, H. n., Bai, C. n., Li, Q. n., Hohenforst-Schmidt, W. n., Zarogoulidis, P. n.
  2017; 22: 130–32

- **A Prediction Model to Help with the Assessment of Adenopathy in Lung Cancer (HAL).** *American journal of respiratory and critical care medicine*
  O'Connell, O. J., Almeida, F. A., Simoff, M. J., Yarmus, L., Lazarus, R., Young, B., Chen, Y., Semaan, R., Saettele, T. M., Cicenia, J., Bedi, H., Kliment, C., Li, et al
  2016

- **Bronchoscopist-directed Continuous Propofol Infusion for Targeting Moderate Sedation During Endobronchial Ultrasound Bronchoscopy: A Practical and Effective Protocol.** *Journal of bronchology & interventional pulmonology*
  Chrissian, A. A., Bedi, H.
  2015; 22 (3): 226-236

- **Identification of Early Acute Lung Injury at Initial Evaluation in an Acute Care Setting Prior to the Onset of Respiratory Failure** *CHEST*
  Levitt, J. E., Bedi, H., Calfee, C. S., Gould, M. K., Matthay, M. A.
  2009; 135 (4): 936-943