PULMONARY & CRITICAL CARE FELLOWSHIP PROGRAM HIGHLIGHTS

- Stony Brook University Hospital and the Northport Veterans Affairs Hospital are the two main sites for clinical training.
- Stony Brook University Hospital is the only level 1 trauma center and tertiary care referral center in Eastern Long Island.
- We offer a dedicated curriculum specifically designed to promote practical and evidence-based understanding of Pulmonary & Critical Care Medicine, meeting all the requirements of the ACGME for board certification.
- Excellent complement of conferences and lectures including clinical case conferences, ultrasound rounds, simulation exercises, radiology/oncology/pathology conference, journal club, research conference and morbidity and mortality conference.
- Novel and comprehensive 2 week orientation bootcamp: The First year fellow has no clinical responsibilities during their first 2 weeks with our program while they attend orientation which includes basic topic lectures, workshops, cardiac arrest training, procedural training, a formal bedside ultrasound. This makes for a comfortable transition to fellowship and allows for exam study time as the new fellow gets used to our program and the hospitals.
- Dedicated full-year faculty-mentored clinical or basic science research in the second of year training at either Stony Brook University Hospital or the Northport Veterans Hospital.
- Interventional Pulmonary Experience
- Three year comprehensive longitudinal training in bedside ultrasound and echocardiography.
HIGHLIGHT: ULTRASOUND TRAINING

Formal Comprehensive Critical Care Ultrasound Training in ultrasound for:
- Procedural guidance for advanced access and pleural procedures
- Hemodynamic monitoring & management of shock state
- Chest US & management of respiratory failure
- Cardiac arrest
- Personalized learning and assembly of a personal portfolio of images
- Advanced echocardiography

Sahar Ahmad, MD
Director of Ultrasound Education & Ultrasound Research
Director of Simulation Medicine
Chair Cardiac Arrest Education

HIGHLIGHT: LUNG CANCER & INTERVENTIONAL BRONCHOSCOPY

Fellows will rotate in the Lung Cancer Evaluation Clinic (LCEC) and participate in initial diagnosis, follow-up and management of lung cancer and pulmonary nodules.

During their interventional bronchoscopy rotations, fellows will perform basic and advanced bronchoscopy techniques including:

- Inspection bronchoscopy, Bronchial alveolar lavage, Transbronchial biopsy
- Wang needle Lymph Node biopsy of mediastinal LN
- Endobronchial Ultrasound [EBUS]
- Super Dimension Navigational Bronchoscopy
- Cryoablation, Argon Laser Ablation, Endobronchial Valve Placement
- Tracheal stenting
- Rigid Bronchoscopy
- Bronchial Thermoplasty
- Pleuroscopy, Pleural biopsy, Indwelling Pleural catheter placement

Stephen Kuperberg, MD
Director of Interventional
Pulmonary Co-Director of Lung Cancer Evaluation Center

HIGHLIGHT: PULMONARY HYPERTENSION & CENTER FOR INTERSTITIAL LUNG DISEASE

The Stony Brook Center for ILD is a nationally recognized center and part of the Pulmonary Fibrosis Foundation’s Care Center Network. We provide comprehensive diagnosis and management of patients with ILD and run the Suffolk County Pulmonary Fibrosis Support Group for patients and their families. Our center functions together with the Departments of Radiology, Pathology, Rheumatology and Thoracic Surgery. Dr. Alpa G. Desai is the Director, and Dr. Nadia Hasaneen the Associate Director of this Center.

The Pulmonary Hypertension Center is co-Directed by Dr. Paul Strachan and Dr. Jignesh Patel, where an interdisciplinary and multifaceted approach to diagnosing and managing patients with Pulmonary Hypertension takes place, including evaluation of the patient by Right Heart Catheterization, Cardio-pulmonary exercise testing and 6-minute walk.

The fellow gains invaluable experience in these subspecialties under the direct guidance of Dr. Alpa G. Desai, Dr. Nadia Hasaneen, Dr. Paul Strachan, & Dr. Jignesh Patel.

Alpa G. Desai MD
Director, Interstitial Lung Diseases Center
Our division is leading the way in innovations for intra- and post-cardiac arrest treatment protocols. We have a robust experience for fellows including a conference series in Resuscitation Science, Simulation training, and one of the most active cardiac arrest research programs in the nation, headed by Dr. Jignesh Patel & Dr. Sahar Ahmad.

Our clinical and research programs in cardiac arrest include the use of mechanical CPR, nitric oxide, EtCO2, Cerebral Oximetry, EEG monitoring and bedside ultrasound. Working alongside Dr. Jignesh Patel and Dr. Sahar Ahmad, all clinical and select research fellows are at the forefront of these innovations and graduate as regional experts in Cardiac Arrest.

Stony Brook University Medical Center is a center for acute respiratory failure and offers adult Extracorporeal Membrane Oxygenation (ECMO) program. Fellows who rotate through the Medical Intensive Care Unit and consultation service serve as part of the team to help screen potential ECMO candidates as well as participate in management of ECMO patients in the Cardio-Thoracic Intensive Care Unit. We are the only adult ECMO center on Long Island.
THE RESEARCH EXPERIENCE

The fellowship program provides a 12-month research experience in the second year of training. Fellows learn the various techniques involved in basic and clinical research, under the close guidance of accomplished research mentors. Fellows complete the experience with major publications and conference presentations.

FELLOW PUBLICATIONS
[a small selection; fellows names bolded]

Kanth, PM, Alaienia, C., Smaldone G. Nebulized mannitol, particle distributions and cough in Idiopathic Pulmonary Fibrosis. Resp Care 2018


Tuong N. Vu , Nadia A. Hasaneen, Gerald C. Smaldone, Hussein D. Foda; Interferon γ and Pirfenidone Synergistically Inhibit TGF-β1-Induced Fibroblasts Differentiation and Proliferation; AJRCCM 2015; 191: A4918

