STONY BROOK UNIVERSITY MEDICAL CENTER
Pulmonary & Critical Care Fellowship Program
AAMC ID 1563521106

INFORMATION FOR APPLICANTS

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Visit us online at:  http://medicine.stonybrookmedicine.edu/medicine/pulmonary/fellowship

STONY BROOK UNIVERSITY MEDICAL CENTER
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.

• Elective rotations in Interventional Bronchoscopy, Advanced Ultrasound, CTICU, SICU/Trauma, Anesthesia, Sleep, Pulmonary Function Testing and Cardiopulmonary Exercise Testing.

• 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

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]
✓ 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, 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
HIGHLIGHT: PROCEDURE SERVICE

A service dedicated to performing and managing pulmonary and critical care procedures; The fellow will perform the following procedures and gain expertise in:

- Intubation
- Percutaneous tracheostomy
- Thoracentesis, Chest Tubes
- Central Line, Arterial Line, Midline
- Swan-Ganz
- Hemodialysis Catheters
- Paracentesis
- Lumbar Punctures
- Pleural biopsy, TTFNA

HIGHLIGHT: CARDIAC ARREST & RESUSCITATION MEDICINE

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.

Jignesh Patel, MD
Co-Director of Resuscitation Lab; Co-Director of the Pulmonary Hypertension Center

HIGHLIGHT: EXTRACORPOREAL MEMBRANE OXYGENATION [ECMO]

Stony Brook University Medical Center is a center for acute respiratory failure and offers adult Extracorporeal Membrane Oxygenation [ECMO]. 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.
HIGHLIGHT: Asthma Center

Training at the Asthma Center at Stony Brook allows for the fellow to develop an expertise in comprehensive asthma diagnostic testing & outpatient management including advanced biologic therapies. Coupled with a robust education program in pulmonary physiology, pulmonary function & Cardiopulmonary exercise test interpretation through the 3 years of fellowship, training in disorders of obstructive airways & related physiology is comprehensive. Ewa Rakowski MD leads the outpatient asthma practice and related educational programs.

Ewa Rakowski, MD
Director of Asthma center

HIGHLIGHT: The Research Year

The fellowship program provides a 8-12 month research experience in the second year of training. Fellows learn the various techniques involved in basic and clinical research and become experts in aerosol medicine, pulmonary mechanics, ultrasound and cardiac arrest, under the close guidance of accomplished research mentors. Fellows complete the experience with major publications and conference presentations. Here’s a short selection of recent fellows’ publications:

- Kanth, PM, Alaieina, 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

HIGHLIGHT: A collegial environment

Our fellows train well and work hard. But they do so in a collegial and fun environment.