

# DEPARTMENT OF INTERNAL MEDICINE

## **PULMONARY CONSULTATION SERVICE ELECTIVE**

**Course Director:** Javed Iqbal, MD, MPH, FCCP

**Duration:** 4 Weeks

### **GOALS**

To acquire knowledge and gain clinical experience with a broad range of pulmonary problems in an inpatient setting, including obstructive lung diseases, pulmonary infections, occupational and environmental lung disease, acute and chronic respiratory failure, and genetic disorders of the respiratory system.

### **OBJECTIVES**

The Pulmonary elective rotation provides students with the opportunity to acquire knowledge of, and to have a clinical experience with a broad range of pulmonary problems in inpatient and outpatient settings.

To acquire knowledge of and to gain a clinical experience with a broad range of pulmonary problems in inpatient and outpatient settings, including obstructive lung diseases, pulmonary infections, diffuse interstitial lung disease, pulmonary vascular disease, occupational and environmental lung disease, iatrogenic lung diseases, pulmonary manifestations of systemic diseases, acute and chronic respiratory failure, disorders of the pleura and mediastinum, and genetic disorders of the respiratory system.

### **CLINICAL EXPERIENCE**

Medical students will:

- Learn outpatient consultation and management of a wide range of pulmonary problems.
- Learn inpatient management and care of the pulmonary complications of surgery and postoperative respiratory failure.
- Acquire knowledge of and competence in the use of oxygen therapy, CPAP, mechanical ventilators, weaning and respiratory care techniques, management of pneumothorax, interpretation of sputum samples, BAL samples, pleural fluid, and lung tissue.
- Learn and develop proficiency in interpreting the indications, contraindications, complications and limitations of pulmonary functions tests, including spirometry, flow volume loops, lung volumes, diffusing capacity, and methacholine challenge studies.
- Learn the indications, contraindications, complications and limitations of fiberoptic bronchoscopy, including lavage and biopsy.
- Gain exposure and experience respiratory care techniques and services, including respiratory physical therapy.

Attending physicians who are board-certified in pulmonary disease, directly supervise senior resident, one or two medical students, and physician assistants.

Consultation services are provided to medical or surgical patients with a full range of mild to severe problems. Examples include asthma, chronic obstructive pulmonary disease, cough, pneumonia, tuberculosis and other infections, pre-operative evaluations, evaluations for dyspnea, infections in immunocompromised hosts, hemoptysis, drug-induced lung disease, pulmonary vascular disease, interstitial lung disease, lung cancer, cystic fibrosis and pulmonary manifestations of systemic diseases. In addition, consultation and management of mechanical ventilation, including the use of non-invasive ventilation, and weaning and respiratory care techniques will be provided by the service.

Clinical encounters include: emergency room evaluation at the time of admission or upon request, full history and physical examination at the time of consultation or clinic visit, and daily work rounds for inpatients.

Procedures most frequently performed by the attending physician assistants during this rotation include: fiberoptic bronchoscopy and related procedures, pulmonary function testing and interpretation, thoracentesis, and pleural biopsy.

During this rotation the student will also acquire knowledge of, and the ability to interpret, imaging studies, including chest x-rays, thoracic CT scans, including CT angiograms, and radionuclide studies, particularly ventilation- perfusion scans.

Nassau University Medical Center has a full range of services available for participation in patient care including a full mix of surgical, anesthesia, and medical subspecialty consultation. NUMC also has a full pulmonary diagnostic laboratory for pulmonary function testing and full radiologic imaging services.

### **DIDACTIC EXPERIENCE**

Formal teaching conferences occur every Thursday between 12:00-1:00 p.m.; at which topics pertinent to Pulmonary Medicine are discussed, student and resident are assigned journal articles, as well as cases for presentation and discussion. In addition, there are informal teaching conferences where pulmonary function tests, exercise tests, or problems pertinent to the patients being currently seen are discussed on daily basis. Rounds with all members of the team occur at least once daily on all consultation follow-ups and patients on mechanical ventilator on the primary service.

### **EVALUATION METHODS**

Clinical observation will be completed mainly by course director.

### **HOW TO APPLY**

If you are interested in applying, please call 516-572-5399 or visit us at [www.numc.edu](http://www.numc.edu).