University of Louisville
Division of Pulmonary, Critical Care, and Sleep Disorders Medicine

A Team Approach to Treating Lung Disease & Sleep Disorders

University of Louisville Physicians | A proud member of UL Health Care
At the University of Louisville Division of Pulmonary, Critical Care and Sleep Disorders Medicine, we are dedicated to our mission of creating the knowledge to heal.

We do this by providing leading-edge clinical care from board-certified experts in pulmonary disease who offer the latest treatments for asthma, chronic obstructive pulmonary disease, emphysema, smoking-related lung disease, black lung, inflammatory lung disease, tuberculosis and lung cancer – one of Kentucky’s biggest killers.

We also offer advanced, minimally invasive pulmonary procedures for the diagnosis, staging and treatment of patients with diverse pulmonary conditions.

We are proud to have one of the few pulmonary hypertension programs in the nation, treating patients with high blood pressure in the arteries in the lungs that can eventually cause the heart to weaken or fail. We offer a diagnosis, clinical care and education program focused on the needs of patients and their families as well as leading-edge research.

Our doctors are also researchers, whose work moves the field forward. In addition to laboratory studies aimed at finding the causes of and new cures for lung disease, the division offers clinical trials of new treatments. We can provide local patients with access to some of the very latest innovations in pulmonary medicine with the potential to benefit thousands of future patients.

We look forward to working with doctors and patients across the region to improve the pulmonary health of our citizens.

Sincerely,

Rodney J. Folz, MD, PhD
Division Chief
Professor of Medicine
A Unique Regional Resource for Patients and Physicians

The physicians of University of Louisville Pulmonary, Critical Care and Sleep Disorders Medicine specialize in the diagnosis and treatment of lung conditions and diseases. Our group is a regional referral site with the expertise and resources to diagnose and treat the most difficult cases, focusing on the following:

- Lung cancer
- Pulmonary hypertension
- Cystic fibrosis, COPD, asthma
- Sleep disorders
- Interstitial lung disease
- Critical care services

Our team includes one of the only pulmonary interventionalists in the region, with the expertise to perform non-invasive lung reduction for patients with advanced emphysema. We also have the most advanced outpatient pulmonary function and exercise physiology lab in the area.

A Team Approach

Our pulmonologists serve as consultants to other physicians and as providers of long-term care to patients with chronic conditions. We take a multidisciplinary team approach, bringing together the specialists who can best benefit each patient we serve. Our team members also work as part of a variety of other multidisciplinary groups, including the Lung Cancer Clinic at the James Graham Brown Cancer Center, to ensure the highest level of patient care. And, we are part of University of Louisville Physicians, working in close proximity and collaboration with physicians from nearly every medical specialty.

Part of an Academic Medical Center

The physicians in this group are all educators at the University of Louisville and remain on the leading edge of advancements in our specialties. Through teaching and leading-edge research, we are shaping the future of medicine. In addition, our participation in clinical trials gives patients early access to promising new treatments and novel therapies.

For more information visit www.uoflpulmonary.com.
The Expertise of Interventional Pulmonology

Interventional pulmonology is an emerging surgical subspecialty that provides less invasive methods of diagnosis that decrease the need for some surgeries.

Diagnosis of lung cancer is made easier and safer by combining ultrasound and bronchoscopy into endobronchial ultrasound (EBUS). This new technology allows doctors to visualize and access suspected masses, allowing biopsies of the tumor without more invasive surgery. It is a diagnostic tool for determining appropriate staging and course of treatment.

The interventional pulmonologist works closely with the thoracic surgery, oncology, radiation oncology, and radiology departments to provide comprehensive multidisciplinary care for our patients at the James Graham Brown Cancer Center. The program is also actively involved with innovative clinical trials.

Diagnostic and therapeutic services include:

- Flexible bronchoscopy
- Rigid bronchoscopy
- Endobronchial laser
- Stent placement (silicon and wire)
- Cryotherapy
- Autofluorescence bronchoscopy
- Endobronchial ultrasound (EBUS)
- Chest ultrasound
- Brachytherapy
- Bronchoplasty
- Transthoracic needle aspiration
- Medical thoracoscopy/pleuroscopy
- Chronic intrapleural catheter (Pleurx®)
- Thoracentesis
- Percutaneous tracheostomy
- Transbronchial fine needle aspiration

Dedicated Bronchoscopy Suite

We have a dedicated bronchoscopy suite, fully equipped with the most advanced equipment, including:

- Flexible bronchoscopic tools
- Fluoroscopy
- Digital imaging
- Pathology support

The suite is staffed by full-time bronchoscopy staff with a nurse who has advanced training and a respiratory therapist specifically dedicated to assisting with bronchoscopies.
Pulmonary Function and Exercise Physiology Laboratory

This comprehensive state-of-the-art laboratory, located in the new University of Louisville Health Care Outpatient Center, provides convenient access to a full range of testing and services including:

- Complete pulmonary function testing
- Cardiopulmonary exercise stress testing
- Exercise challenge testing
- Arterial blood gas analysis
- Methacholine challenge test
- Oxygen shunt study
- Maximal inspiratory/expiratory pressures
- Pulse oximetry
- Induced sputum collection
- Nebulized treatments and more

In addition, the lab offers customized testing and services to meet the needs of special research protocols.

To schedule a Pulmonary Function test, call (502) 855-7856.

Adult Cystic Fibrosis

Thanks to advances in pulmonary medicine, people with cystic fibrosis (CF) are living longer and enjoying a better quality of life. According to the CF Foundation, more than 40 percent of Americans with CF are aged 18 or older. While there is no cure for CF, specialized medical care, aggressive drug treatments and therapies, along with proper nutrition, can both lengthen and improve the quality of life for those with CF.

Our Adult CF Clinic, part of the University of Louisville’s CF Foundation Center of Excellence, partners with patients with CF and their families to keep them in the best health possible.

Our clinic provides a medical home and continuity of treatment, bringing together a multidisciplinary team including a pulmonary physician, respiratory therapist, nutritionist, social worker, and nurse clinical coordinator to ensure that patients receive leading-edge care, access to the newest medications and an approach that puts the patient first.
Asthma
Asthma can be severe enough not only to adversely affect an individual’s quality of life, but also to become life threatening. Successful management of asthma is essential. The expertise of our specialists can help patients maintain normal breathing, prevent chronic symptoms, prevent acute episodes and minimize the need for emergency room visits, provide optimal medication therapy, and allow the patient to maintain normal exercise and activity levels.

Our physicians can provide all the elements of asthma management, including objective measurement of lung function, identification of triggers, medication to treat both chronic inflammation and episodic bronchospasms, and patient education.

Chronic Obstructive Pulmonary Disease
Our physicians offer comprehensive diagnosis and care for patients with chronic obstructive pulmonary disease (COPD). In addition, through interventional pulmonology, ours is the only group in the region with the expertise to perform non-invasive lung reduction to ease the symptoms of patients with COPD and/or advanced emphysema.

Emphysema
Emphysema is a chronic and progressive lung condition with symptoms that include shortness of breath and cough, and may include fatigue, anxiety, weight loss, depression, sleep problems and heart problems. Our physicians offer comprehensive testing for accurate diagnosis, which may include pulmonary function tests, blood tests, chest x-ray, sputum culture, and electrocardiogram. Following diagnosis, specific treatment will vary depending on the patient’s age and overall health, the extent of the disease and the patient’s tolerance for specific therapies.

The goals of treatment are to allow the patient to live more comfortably by relieving symptoms and to help prevent progression of the disease. This may involve smoking cessation, medication, bronchodilators, exercise, oxygen supplementation, lung reduction surgery and even lung transplantation.

As previously cited, we are one of the only groups in this area to perform non-invasive lung reduction to ease the symptoms of patients with advanced emphysema.
Lung Cancer
Our pulmonary specialists are part of the multidisciplinary team at the Lung Cancer Clinic in the renowned James Graham Brown Cancer Center. The Lung Cancer Clinic brings patients the benefits of groundbreaking research, leading-edge technology, accomplished specialists, and exceptional collaborative care.

Interstitial Lung Diseases
Interstitial lung diseases may include:
- Black lung
- Lymphangioleiomyomatosis
- Sarcoidosis
- Wegener’s Granulomatosis
- Tuberculosis and others

Diseases in this category usually cause progressive scarring of lung tissue and are among the most challenging to diagnose.

We have a great deal of experience diagnosing interstitial lung diseases as well as access to a full range of testing that may be needed. These tests include computerized tomography, bronchoscopy, thoracoscopic surgery, pulmonary function tests and more. Once a diagnosis has been made, our physicians can design the proper program of care, which may involve anti-inflammatory drugs, cytotoxic drugs, pulmonary rehab, oxygen therapy and lifestyle modifications.

Pulmonary Hypertension Program
The Pulmonary Hypertension Program provides both consultative and ongoing clinical care, diagnostic services, education, and resources for individuals with pulmonary hypertension.

We have special expertise in the definitive diagnosis of pulmonary hypertension, as well as access to the advanced technology it requires, including MRI’s and perfusion lung scans. This is particularly important since accurate diagnosis of the type of pulmonary hypertension is critical in determining a safe and effective program of care.

Our team includes specialists from a number of disciplines, ensuring the highest level of care. Treatment may include a variety of medications delivered orally, through inhalation, or the use of an IV pump. Support and assistance for families and patients are also provided to maximize the individual’s quality of life.
Critical Care Services
The specialists in this division direct the Intensive Care Unit at University of Louisville Hospital. In the unit, patients who require intensive care following an accident, infection, major surgery or severe breathing problems receive close, constant attention from a team of specially trained professionals. These patients often require support for hemodynamic instability, respiratory compromise, cardiac dysrhythmias, and multiple organ system failure. A comprehensive multidisciplinary team is available to provide every aspect of care that may be needed.

Our physicians are highly skilled in the procedures essential to the diagnosis and management of critical care patients including indications, contraindications, complications, performance, and interpretation of results. Among the services we perform are:

- Advanced cardiac life support
- Arterial blood gas sampling and interpretation
- Bronchoscopy
- Chest tube thoracostomy
- Endotracheal intubation and airway management
- Oximetry monitoring
- Pulmonary artery catheterization
- Radiology including:
  - Plain films
  - Computed tomography
  - Nuclear medicine
  - Magnetic resonance
  - Interventional radiographic techniques
- Vascular access placement
- Ventilator management

Among the areas of special interest are ICU pneumonia, ICU nutrition, and Adult Respiratory Distress Syndrome.

Sleep and Wake Disorders
The Center for Sleep and Wake disorders at the University of Louisville is dedicated to establishing a model program for the evaluation, testing, and treatment of sleep and wake disorders.

The Center fosters a clinic staffed by specialists who are Board Certified in Sleep Medicine with expertise in evaluation and treatment in a wide variety of sleep complaints and disorders, including but not limited to:
- Sleep apnea
- Excessive sleepiness
- Insomnia
- Narcolepsy
- Movement disorders
- Parasomnia
- Circadian rhythm sleep disorders
- Sleep disorders related to neuromuscular diseases and chronic respiratory failure

In addition to providing Positive Airway Pressure (PAP) and pharmacologic treatment for a variety of sleep disorders, our center will provide:

- Alternatives to PAP therapy
- Nonpharmacologic, Cognitive and Behavioral therapy for a variety of sleep disorders with special focus on insomnia

**University Sleep Center**

The University Sleep Center is a vital part of the Sleep and Wake Disorders Program. The center offers patients a state-of-the-art facility that is on the leading-edge of sleep research. We provide diagnostic services to our patients through the University Sleep Center. These diagnostic services include:

- Nocturnal polysomnography with end tidal CO2 monitoring
- Multiple sleep latency testing
- Maintenance of wakefulness testing
- Seizure monitoring
- Titration of positive airway pressure as treatment for sleep disordered breathing
- Nocturnal oxygen titration
- Nocturnal Esophageal pH monitoring
- Actigraphy
- Initiation and titration of non-invasive mechanical ventilation for patients with chronic respiratory failure including patients with neuromuscular diseases
- Adjustment of diaphragmatic pacemaker settings for patients with neuromuscular disorders

University Sleep Center is the only accredited sleep center in Kentucky that offers this unique environment.

To schedule a sleep center consultation, call (502) 562-3792.
Our Clinical Team

Rodney J. Folz, MD, PhD
Division Chief, Division of Pulmonary and Sleep Disorders Medicine
• Interstitial Lung Disease
• Pulmonary Complications of Bone Marrow Transplant Patients
• Chronic Obstructive Pulmonary Disease (COPD)
• Asthma

Youssef Dairi, MD
Associate Director, Adult Cystic Fibrosis Program
• Cystic Fibrosis
• Adult Respiratory Distress Syndrome (ARDS)
• Sepsis
• Alpha-1 Antitrypsin Deficiency

Juan Guardiola, MD
Chief, Pulmonary and Critical Care Section, VA Medical Center
• ICU Pneumonia
• Sleep Disorders Breathing
• Pulmonary Hypertension

Jason Kelley, MD
Medicine Service Chief, Louisville Veterans Hospital
• Pulmonary Diseases
• Interstitial Pneumonitis
Jinesh Mehta, MD
*Director, Pulmonary Hypertension Program*
- Pulmonary Hypertension
- Lung Cancer
- Bronchoscopic Lung Volume Reduction

Bogdan (Bobby) Moldoveanu, MD
- Chronic Obstructive Pulmonary Disease (COPD)
- Emphysema
- Sleep Disorders

Mohamed Saad, MD, FCCP
*Program Director, Pulmonary and Critical Care Fellowship*
- Adult Respiratory Distress Syndrome (ARDS)
- Sepsis
- Nutrition in Critically Ill Patients
- Hospital Acquired Pneumonia

Fidaa Shaib, MD
*Director, Center for Sleep and Wake Disorders*
- Critical Care Medicine
- Pulmonary Medicine
- Sleep Medicine
- Behavioral Sleep Medicine

For more information about any of our doctors, please visit our web site at: [www.uoflpulmonary.com](http://www.uoflpulmonary.com)
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Clinic Locations in Louisville

A University of Louisville Health Care Outpatient Center
401 E. Chestnut St
3rd Floor, Suite 310

B Brown Cancer Center
529 S. Jackson St
3rd Floor

C University Sleep Center
Marriott Residence Inn
333 E. Market St
6th Floor

Contact Us:
502-852-5841
Fax: 502-852-1359
www.uoflpulmonary.com

Parking for UofL Health Care Outpatient Center
Parking for Ambulatory Care Building, University Hospital and the James Graham Brown Cancer Center