

**Chapter 1 : 9: Pulmonary Function Testing | Clinical Gate**

*Pulmonary Function Testing James R. Dexter. Purpose of Pulmonary Function Testing. Normal Values. Other Applications of Pulmonary Function Testing.*

Professor - Department of Pediatrics SMD - Joint Biography The overall goal of my clinical research and bench laboratory is to provide better care to patients with a rare disease of the lung blood vessels, pulmonary arterial hypertension PAH. We also contribute actively to clinical research in hopes of better therapies with drugs that are already available and those yet to be approved. I serve as leadership on steering committees and DSMB for global clinical trials in this deadly disease. In my laboratory, we do experiments in animals and cells in an attempt to discover entirely new ways to treat this deadly disease. Because echocardiograms often estimate pulmonary hypertension in patients with obstructive sleep apnea and heart failure, much of my clinical practice and expertise is focused in these two common problems. My thesis studies demonstrated that mitochondria were critical buffers of glutamate stimulated calcium loads and further that mitochondrial depolarization was an important consequence after pathologic neuronal stimulation. I moved to Rochester in to begin residency training in internal medicine and stayed to complete training in pulmonary and critical care. Mark Taubman mentored my early scientific career in the lab studying rat models of pulmonary hypertension and a potential pathogenic role for tissue factor, the protease which initiates blood coagulation. I still have a strong interest in bench studies of the pulmonary vasculature, but more recently I have enjoyed leadership roles in phase 2 and 3 clinical trials for PAH drug development. Research The University of Rochester is a nationally accredited PHA Comprehensive Care Center, and we provide evaluations for patients with echo estimated pulmonary hypertension. We provide a strong link to surgical centers at Massachusetts General and Allegheny General for our patients with chronic thromboembolic pulmonary hypertension. I am grateful for the opportunity to serve as steering committee leadership in drug development projects with United Therapeutics oral treprostinil and PhaseBio VIP analogue PB I also serve as a consultant providing development advice to Reata, Gilead, Bayer, and Celtaxsys. I chair the DSMB for the first randomized, placebo-controlled trial of genetically-modified, endothelial progenitor cells led by colleagues in Canada sponsor, Northern Therapeutics. The overall goal of my bench laboratory is to do better preclinical testing of potential novel treatment options for pulmonary arterial hypertension. Our current approach is with a rat model that recapitulates the histopathology, severe hemodynamic alterations, and right ventricular heart failure seen in advanced human disease. This rat model employs pneumonectomy promotes contralateral lung growth and endothelial injury low dose monocrotaline to cause lethal pulmonary hypertension in about 4 weeks. Our animals die earlier with a more severe phenotype, and we presented the first report of proliferative, plexiform-like lesions in We have developed a novel CT angiography to assess for vascular pruning during disease progression, and we have become expert at evaluating RV size and function with echo. We have also utilized telemetry techniques to measure pressure in awake, behaving animals. We believe that this sort of preclinical testing will provide the best evidence to move compounds into the clinic. Deb Haight, LVT, leads the lab work. We hypothesize that tissue factor the membrane bound glycoprotein which initiates coagulation is an important contributor to disease progression, and we are actively testing small molecule inhibitors of tissue factor and thrombin as novel therapies in this devastating disease.

**Chapter 2 : Stress Tests In Ohio | Cardiopulmonary Testing Chillicothe OH**

*Dr. James Dexter, MD is a critical care medicine specialist in Redlands, CA and has been practicing for 38 years. He graduated from Loma Linda University School Of Medicine in and specializes in critical care medicine and pulmonary disease.*

**Chapter 3 : N2 Washout | PFT History**

*Clinical Assessment in Respiratory Care Wilkins, Robert L. PhD James R. Dexter Pulmonary function testing.*

#### Chapter 4 : Pulmonary function testing - Wikipedia

*Pulmonary function test (PFT) is a complete evaluation of the respiratory system including patient history, physical examinations, and tests of pulmonary function. The primary purpose of pulmonary function testing is to identify the severity of pulmonary impairment.*

#### Chapter 5 : Diagnostic value of post-bronchodilator pulmonary function testing to | COPD

*Spirometry is the foundation of pulmonary function testing and provides timed measurements of expired lung volumes (Figure ).With automated equipment it is possible to interpret more than 15 different measurements from spirometry alone.*

#### Chapter 6 : - NLM Catalog Result

*Spirometry is the foundation of pulmonary function testing and provides timed measurements of expired lung volumes. With automated equipment it is possible to interpret more than 15 different measurements from spirometry alone.*

#### Chapter 7 : Indications for Pulmonary Function Testing | Clinical Gate

*Pulmonary function testing can help diagnose many of these disorders so that effective treatment can be prescribed. Texas Pulmonary & Critical Care Consultants now provides comprehensive testing to help make more informed decisions.*

#### Chapter 8 : Pulmonary Function Testing

*Clinical assessment in respiratory care. [Robert L Wilkins; James R Dexter; Albert J Heuer] -- Synopsis: The only respiratory care text devoted exclusively to patient assessment! By performing a thorough patient assessment, you'll be able to assist physicians in the decision-making process.*

#### Chapter 9 : Pulmonary Function Tests - Oxford Medicine

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