

## Pulmonary – Pulmonary Physiology and Pathophysiologies – ROANE

### 1. Upper and Lower Airways

#### a. Main Functions

##### i. Upper

1. Warm and moisten incoming air
2. Trap inhaled particles
3. Front line of immunological defense
4. Olfaction (smell)

##### ii. Lower

1. Ventilation (moving air in and out)
2. Gas exchange – O<sub>2</sub> to the blood, CO<sub>2</sub> out of the blood

#### b. Pathophysiologies

##### i. Upper

1. Allergies and infection

##### ii. Lower

1. Obstructive Disorders
  - a. Asthma, COPD, Bronchiectasis
  - b. Compromised exhalation
2. Restrictive Disorders
  - a. Fibrosis, sarcoidosis (autoimmune)
  - b. Compromised inhalation
3. OTHERS: Silicosis, Black Lung, Cystic fibrosis, Pulmonary hypertension; Infections

#### c. For lower respiratory conditions and drug therapy, there are 2 important physiological equations

##### • Poiseuille's Law

- $Q = \Delta P \pi r^4 / 8 \eta l$
- Flow =  $\frac{\text{change in pressure} \cdot \pi \cdot \text{radius}^4}{8(\text{the number}) \cdot \text{viscosity} \cdot \text{length}}$

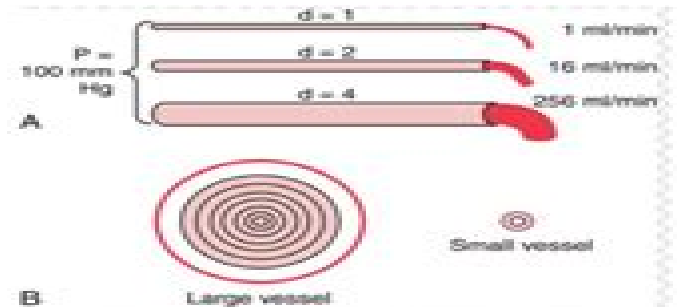
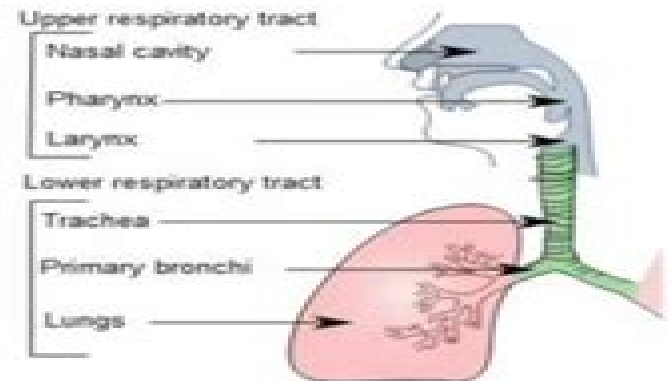
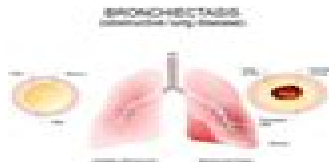
Notice  $r^4$  – This means that a small change in radius of the tube has a very large effect on flow

##### • Fick's Law of Flux

- "Flux" is a measure of how fast a substance (like a gas or a drug molecule) can move across a barrier

• Flux =  $(C_1 - C_2) \cdot P \cdot SA / D$

- C<sub>1</sub>-C<sub>2</sub> is the concentration difference on either side of the barrier
- P is the permeability
- SA is the surface area
- D is the distance across the barrier



#### d. Inhaled Particles land on different region depending on their size

- i. This is an extremely well-studied area of science, and it is a major health issue
- ii. Defense mechanisms are primarily the mucociliary escalator system and ingestion by macrophages

# Pulmonary Physiology Pathophysiology

**Selian Neuhof**



## **Pulmonary Physiology Pathophysiology:**

**Pulmonary Physiology and Pathophysiology** John Burnard West, 2007-01-01 The Second Edition of Pulmonary Physiology and Pathophysiology presents normal and abnormal pulmonary function in the same case based format that has made the first edition a favorite among students Each chapter begins with a clinical case study of diseases typically seen by practitioners The cases are followed by a discussion and breakdown of the physiology pathophysiology anatomy pharmacology and pathology for each disease and a question and answer section This edition has an infectious diseases chapter updates on asthma pathogenesis and bronchodilators and user friendly features such as chapter openers chapter outlines key points summary boxes and board formatted questions and answers Exercise Brian J. Whipp, Karlman Wasserman, 1991-01-24 Fifteen contributed chapters deal with the major aspects of the effects of exercise on the respiratory system in health and disease The chapters are organized into a logically sequential scheme of topics beginning with pulmonary mechanics continuing with pulmonary gas exchange the pulmonary and *Applied Respiratory Pathophysiology* Louis-Philippe Boulet, 2017-11-22 This easy yet comprehensive reference guide covers the mechanisms of respiratory diseases explaining the main respiratory conditions for clinicians and postgraduate trainees It discusses their aetiology as well as the basic concepts required to effectively evaluate and treat them Applied Respiratory Pathophysiology is the first book to bring together detailed clinically relevant explanation of respiratory physiological processes and pathophysiological processes in one text It is essential reading for anyone diagnosing and treating specific clinical conditions of the lungs

**Innovative In Vitro Models for Pulmonary Physiology and Drug Delivery in Health and Disease** Josue Sznitman, Claus-Michael Lehr, Leslie Yeo, 2021-12-28 **Pulmonary Pathophysiology** Juzar Ali, Warren R. Summer, Michael G. Levitzky, 2005 A system and disease based approach to the aspects of pulmonary pathophysiology essential for an understanding of clinical medicine Features clinical pearls learning objectives study questions algorithms and key concepts highlighting the presentation in each chapter Midwest Lung Function in Health and Disease Camillo Peracchia, Nasr H. Anaizi, 2014-02-11 This reference presents basic concepts of respiratory function in normal and diseased states The volume stresses a quantitative approach to physical parameters used as indicators of normal and diseased respiratory functions The contents of this reference **West's Pulmonary Pathophysiology** John B. West, Andrew M. Luks, 2021-03-22 Reflecting the trusted expertise of Dr John B West and Dr Andrew M Luks West's Pulmonary Pathophysiology The Essentials Tenth Edition offers accessible explanations of disease processes that affect the respiratory system This best selling companion to West's Respiratory Physiology The Essentials 11th Edition has served generations of students and practitioners who work with respiratory patients presenting vital knowledge in a concise straightforward manner that's easy to understand Building on this legacy of success the tenth edition is updated throughout with the latest clinical perspectives new images clinical vignettes and enhanced USMLE style review questions to help students excel in today's changing healthcare practice

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**Lung Mechanics** Jason H. T. Bates, 2009-07-30 A modern quantitative study of lung mechanics relating mathematical modeling and engineering principles to lung function structure mechanics and disease      Subject Index of Current Research Grants and Contracts Administered by the National Heart and Lung Institute National Heart and Lung Institute, 1975

**Transactions of the Section on Pathology and Physiology of the American Medical Association at the ... Annual Meeting ...** American Medical Association. Section on Pathology and Physiology, 1919      *The Heart; Its Physiology, Pathology and Clinical Aspects* Selian Neuhof, 1923      **Respiratory Physiology** Michelle M. Cloutier, 2018-09-03 Gain a foundational understanding of respiratory physiology and how the respiratory system functions in health and disease Respiratory Physiology a volume in the Mosby Physiology Series explains the fundamentals of this complex subject in a clear and concise manner while helping you bridge the gap between normal function and disease with pathophysiology content throughout the book Helps you easily master the material in a systems based curriculum with learning objectives Clinical Concept boxes highlighted key words and concepts chapter summaries self study questions and a comprehensive exam Keeps you current with recent advances in respiratory physiology and includes a new chapter on new and emerging aspects of the lung Includes nearly 150 clear 2 color diagrams that simplify complex concepts Features clinical commentaries that show you how to apply what you ve learned to real life clinical situations Complete the Mosby Physiology Series Systems based and portable these titles are ideal for integrated programs Blaustein Kao Matteson Cellular Physiology and Neurophysiology Johnson Gastrointestinal Physiology Koeppen Stanton Renal Physiology Pappano Weir Cardiovascular Physiology White Harrison Mehlmann Endocrine and Reproductive Physiology Hudnall Hematology A Pathophysiologic Approach New chapter on New and Emerging Aspects of the Lung Add clinical boxes Symbols abbreviations      *National Library of Medicine Audiovisuals Catalog* National Library of Medicine (U.S.),

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