

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 – O₂ to the blood, CO₂ 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

$$\dot{Q} = \Delta P \pi r^4 / 8 \eta l$$

$$\text{Flow} = \frac{\text{change in pressure} \cdot \pi \cdot \text{radius}^4}{8(\text{the number}) \cdot \text{viscosity} \cdot \text{length}}$$

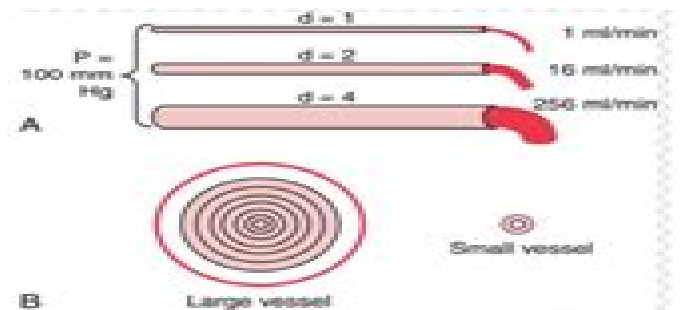
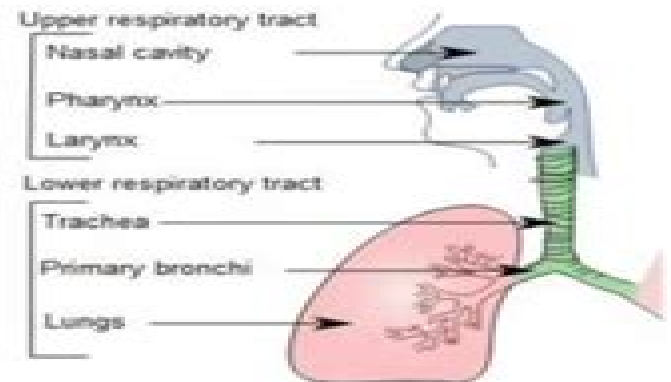
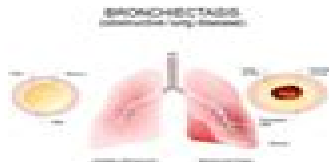
Notice r^4 – This means that a small change in radius of the tube has a very large effect on flow

• 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

$$\text{Flux} = (C_1 - C_2) \cdot P \cdot SA / D$$

- C₁-C₂ 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

John Burnard West



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 **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

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

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this referenc *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, Lung and Blood Institute** National Heart, Lung, and Blood Institute,1975 **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants,1975 **Biomedical Index to PHS-supported Research** ,1991 **Cerebrovascular Bibliography** ,1967
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