

Respiratory System Learning Objectives

I. Functional Anatomy Part I

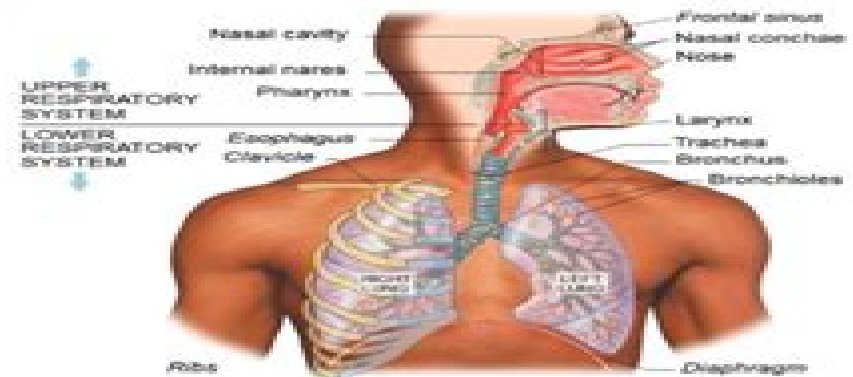
a. Describe principles of respiration and associated respiratory anatomy

i. External respiration:

1. Exchange of O_2 and CO_2 between the environment and cells of the body (gas exchange via the lungs)
 - a. 250 ml O_2 enters the body every minute
 - b. 200 ml CO_2 is expired every minute

ii. Cellular or internal respiration

1. cellular utilization of O_2 for the production of ATP resulting in the formation of CO_2 as the primary waste product



b. Identify functions of the respiratory system and the 4 major steps in respiration

i. Principle function of respiratory system:

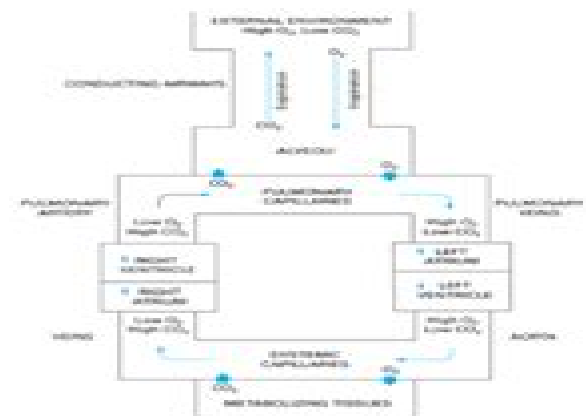
1. External respiration (gas exchange)

ii. Other functions:

1. Acid-base balance via the elimination of CO_2
2. Phonation
 - a. Vocalization via vocal cords (sound produced when air passes through glottis and causes the vocal cords to vibrate)
3. Defense mechanisms against infections (mucociliary clearance)
 - a. "air conditioning process"
4. Pulmonary metabolism
 - a. Activation/inactivation of endogenous and exogenous chemicals/substances
5. Olfaction (smell)
6. Route of administration for drugs
 - a. Volatile anesthetics, bronchodilators, vaccines, pulmonary vasodilators, CII/I substances
 - b. **Bypass first-pass metabolism** (but only 10-20% of dose inhaled is absorbed via lungs)

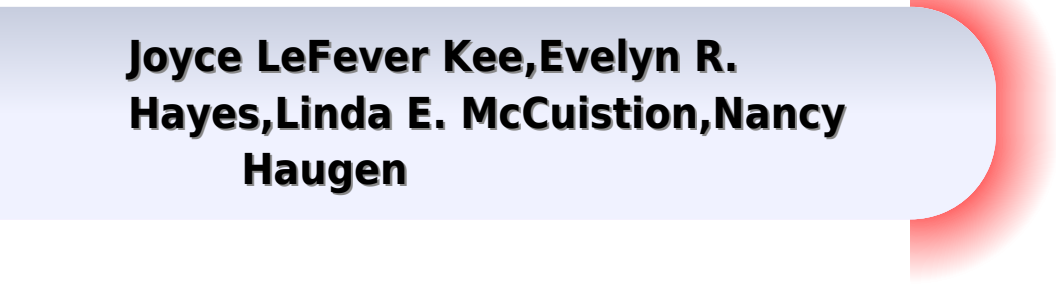
iii. Four major steps in external respiration

1. Ventilation:
 - a. air moves **into the lungs during inspiration**, and **out during expiration**
2. O_2 and CO_2 exchange between air and blood flowing through pulmonary capillaries.
 - a. At the **pulmonary alveolar level**
3. O_2 and CO_2 are transported in the blood to all tissues of the body through systemic circulation.
4. O_2 and CO_2 are exchanged between blood and body tissue cells.
 - a. At **systemic capillary level**



Upper Respiratory And Study Guide

**Joyce LeFever Kee, Evelyn R.
Hayes, Linda E. McCuistion, Nancy
Haugen**



Upper Respiratory And Study Guide:

Study Guide for Pharmacology - E-Book Joyce LeFever Kee, Evelyn R. Hayes, Linda E. McCuistion, Nancy Haugen, 2014-09-24 Corresponding to the chapters in Kee's Pharmacology A Patient Centered Nursing Process Approach 8th Edition this study guide offers practical activities to help you review and remember essential nursing pharmacology Hands on exercises include study questions case studies and NCLEX review questions making it easier to apply your knowledge to clinical practice and develop clinical reasoning skills NCLEX review questions in each chapter include application level questions and alternate item format questions Case studies enhance your understanding of nursing responsibilities in therapeutic pharmacology Medications and Calculations chapter offers additional opportunities to test your knowledge and skill in drug dosage calculation 75 sample drug labels familiarize you with the real labels you will see in clinical practice Answers for all exercises are provided at the back of the book to make studying easier Study questions are provided in formats including matching completion and crossword puzzles NEW Updated content reflects the changes to Kee's Pharmacology textbook NEW Case study questions focus on developing your clinical reasoning skills NEW Rationales are added to the answer key for selected application level questions and case study questions NEW safety icons emphasize the nurse's role in patient safety NEW Case studies now feature open ended questions to promote development of clinical reasoning skills [Study Guide for Medical-Surgical Nursing - E-Book](#) Holly K. Stromberg, 2025-05-06 Reinforce your understanding of medical surgical nursing concepts and skills With chapters corresponding to the chapters in Stromberg's Medical Surgical Nursing Concepts and Practice 6th Edition this study guide provides a variety of exercises to help you master the role of the LPN LVN Review questions help you understand terms and apply concepts to patient care settings and realistic activities provide practice with critical thinking and clinical judgment skills Next Generation NCLEX PN NGN style practice questions and case studies ensure that you will be ready to pass the NGN exam Case studies help you practice and develop clinical judgment Application of the nursing process critical thinking activities and prioritization exercises challenge you to apply concepts from the text to real life scenarios in addition to developing clinical judgment Next Generation NCLEX format questions allow you to review and practice for the licensure examination Communication section includes vocabulary grammar and cultural scenarios to help you practice communication with a diverse patient population [The Complete MRCGP Study Guide, 4th Edition](#) Sarah Gear, 2022-02-16 This new edition of the MRCGP Study Guide has been purposely revised and updated to comprehensively cover every aspect of the membership examination of the Royal College of General Practitioners It takes you through all the main medical topics fundamental to general practice all relevant non clinical areas and then finally tests you with an AKT and CSA style examination All the information you need in one place This guide can be used as a source of reference and for revising to ensure you are perfectly prepared It saves you the colossal amount of time you would otherwise need to cover the same ground **COMLEX II Specialty Review and Study Guide** Richard Whitten,

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