

The Respiratory System

The Bronchial Tree

- Right and left bronchus
- Right is more acute in angle and shorter by 2.5cm, resulting in more foreign objects entering the right lung.
- Left bronchus is lower and narrower.
- It divides into:
 - Secondary bronchi
 - Tertiary bronchi
 - Bronchioles
 - Terminal bronchioles
- Alveoli (external respiration takes place, approx 500 million that cover 100m squared)



The Lungs

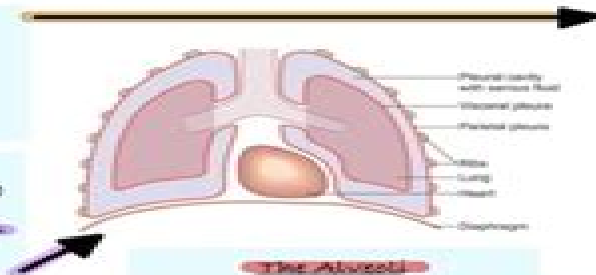
- **cone shaped** lungs with an **apex**, **base** and **costal/medial surface**
- **Pleural membranes**: parietal pleura, potential space and visceral pleura
- **Labels**: right lung has 3, left lung has 2
- **lobules**
- **alveoli**
- **bronchioles**
- **alveolar pores**
- The **top of the lung** is called the **apex** lies 2" above the clavicle.

The Hilum

- Each lung has an **entry point** for:
 - **blood vessels** (pulmonary arteries and veins)
 - **the bronchi** (a)
 - **lymph vessels**
 - **nerves** (sympathetic and parasympathetic)

The Pleura

- **double layer** of serous membrane, **cover the lungs** (visceral) and **inside the chest wall** (parietal).
- **potential space** between the two layers is filled with **serous fluid** and prevents friction when we breathe.



The Alveoli

Alveoli are **small air sacs** in the lungs which are specially adapted for **gas exchange**.

The walls of the alveoli separating the air from the blood are very thin allowing gases to diffuse quickly. The blood supply to the alveoli is very good to constantly supply blood with little oxygen and a lot of carbon dioxide keeping a high concentration gradient. The walls of the alveoli are kept moist to allow gases to dissolve into the fluid for gas exchange with the blood.



A diagram showing several alveoli and the capillaries supplying them with blood.



A diagram showing a single alveolus with the oxygen going into the blood and Carbon Dioxide leaving the blood.



A diagram showing the bronchioles.

The Bronchioles

The bronchioles are small **branches of the bronchi** which link the alveoli in the lungs to the trachea. There are many bronchioles in the lungs. The bronchioles **branch out** and contain around **1000 million alveoli**.

BREATHE IN... BREATHE OUT... BREATHE IN... BREATHE OUT... BREATHE IN... BREATHE OUT... BREATHE IN... BREATHE OUT...

Respiratory System Study Guide

Carolyn Jarvis, Ann L. Eckhardt



Respiratory System Study Guide:

Study Guide for The Anatomy and Physiology Learning System Edith Applegate, 2010-03-30 Designed to accompany The Anatomy and Physiology Learning System 4th Edition by Edith Applegate this study guide helps you learn and review basic A P concepts Each chapter emphasizes medical terminology with a set of key terms word parts clinical terms and abbreviations and then adds a variety of fun filled learning exercises review questions a quiz and a word puzzle The study guide corresponds to the textbook chapter for chapter Chapter learning objectives help you focus on the most important material Key concepts are defined on the first page of each chapter in the workbook Learning exercises for each chapter include short answer matching and diagrams to label and color Self quizzes allow you to measure your progress and understanding Fun and Games features end each chapter with a variety of engaging puzzles covering words and concepts A chapter summary provides a brief review of each chapter A chapter review provides questions for reinforcement and review of the concepts in each chapter

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Student Notebook and Study Guide to Accompany The Human Body Bruce Wingerd, Patty Bostwick Taylor, 2013-02-01 This Student Notebook and Study Guide the ideal companion to Bruce Wingerd s The Human Body reinvents the traditional study guide by giving students a tool to help grasp information in class and reinforce learning outside of class Too often students struggle to both learn the concepts presented and simultaneously record crucial information The Student Notebook and Study Guide provides a structure for recording in class material that parallels the text s concept presentation and includes supplemental questions and activities for assignment outside of the classroom A complete answer guide for both the in class and out of class materials is available online

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how to solve each question formula listed on the BCSP examination and provide examples on how and when to utilize them

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Manglik,2024-07-30 This guide supports learning in medical surgical nursing through summaries case studies and self assessment tools that reinforce core concepts and clinical decision making skills **Clinical Decision-Making Study Guide for Medical-Surgical Nursing - Revised Reprint** Donna D. Ignatavicius,Patricia Conley,M. Linda Workman,Donna Rose,Amy H. Lee,2013 Designed to accompany Ignatavicius and Workman s Medical Surgical Nursing Patient Centered Collaborative Care 7th Edition this study guide helps you understand and apply material from each chapter in the text and gives you added support as you learn to make safe and effective clinical decisions Study review questions provide a review of key content using a variety of question formats including a high percentage of questions in traditional and alternate NCLEX R Examination formats Answers are provided in the back of the book Case studies in most chapters give you the opportunity to apply higher level thinking skills to true to life clinical scenarios NEW Increased emphasis on clinical decision making prepares you to confidently make safe and effective decisions in clinical practice NEW Documentation practice questions have been added to select case studies to help you take the next step in patient care just as you would in clinical practice

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Study Guide & Laboratory Manual for Physical Examination & Health Assessment E-Book
Carolyn Jarvis, Ann L. Eckhardt, 2023-01-02 Both a comprehensive lab manual and a practical workbook the Study Guide Laboratory Manual for Physical Examination Health Assessment 9th Edition gives you the tools you need to master physical examination and health assessment skills in the lab and in clinical practice Corresponding to the bestselling Jarvis textbook this guide features terminology reviews application activities clinical judgment questions regional write up sheets and narrative summary forms with answers to study questions at the back of the book to facilitate both learning and review The 9th edition has been thoroughly updated with a fresh focus on the Next Generation NCLEX NGN with case studies featuring new NGN question formats to prepare you not only for the skills laboratory but for success on the NCLEX and in interprofessional collaborative practice Authoritative review and guidance for laboratory experiences personally written by the textbook authors provide a seamlessly integrated study and clinical experience Consistent format includes Terminology Review Study Guide and Clinical Judgment Questions in each chapter Physical examination forms familiarize you with what you will encounter in clinical practice and offer practice in documenting the patient history and examination findings The only full color illustrated lab manual available for a nursing health assessment textbook with anatomy exercises that align with the main text NEW Clinical judgment exercises equip you for success on the Next Generation NCLEX NGN including questions with an increased focus on clinical judgment robust single episode case studies that employ the latest NGN question types and unfolding case studies which reflect the language of the NCSBN Clinical Judgment Measurement Model NEW Chapter 33 includes unfolding case studies for the NGN that present opportunities for you to practice prioritizing decision making and using clinical judgment skills NEW Increased emphasis on activities focused on higher cognitive levels Applying and above UPDATED Critical Thinking Exercises offer suggested readings based on your participation in the skills lab and discussions with your instructor UPDATED Content corresponds to the 9th edition of the Jarvis textbook and incorporates the latest research and evidence based practice

The Ultimate NCLEX-RN Study Guide 2025-2026
Naomi Julia Rice, Are you ready to conquer the NCLEX RN and Midwifery exams with confidence The Ultimate NCLEX RN Study Guide 2025 2026 is designed to give you all the tools you need for success This comprehensive guide is packed with expert advice practice questions and essential tips to help you not only pass the exam but master it Whether you re focused on nursing or midwifery this book breaks down every critical topic from pharmacology to maternal health so you can study

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Criner, Gilbert E. D'Alonzo, 2013-03-09 Critical care medicine is a dynamic and exciting arena where complex pathophysiologic states requiring extensive knowledge and clinical acumen are commonly found Caring for critically ill patients requires an extensive knowledge of basic pathophysiology as well as awareness of the appropriate diagnostic tests and therapeutic interventions Because this knowledge base crosses many different disciplines introduction to caring for the intensive care patient while exciting may also be intimidating This textbook is designed toward making the dynamic environment of the critical care unit understandable and the approach to the patient both logical and successful The book contains three components 1 description of the procedural tasks commonly performed for the critically ill patient 2 explanation of the most common pathophysiologic states encountered and 3 description of specific disease entities with details of their differential diagnosis diagnostic strategy and therapeutic plan This book also uses several educational approaches that we have found useful in our own teaching sessions and prior textbooks Clinical cases introduce chapters and highlight chapter segments to emphasize clinical relevancy As an additional study aid margin notes highlight important teaching points and facilitate easy review of chapter content To consolidate the principles outlined in each chapter review questions with full text explanations are provided at the end of each chapter All these elements help reinforce the most important messages for the reader **CEN Study Guide** Jonathan L. Reese, 2024-08-23 Have you ever wondered what it takes to excel in the high stakes world of emergency nursing In a field where every second counts and decisions can make the difference between life and death being equipped with the right knowledge and skills is crucial This comprehensive guide is designed to help you master the complexities of emergency care and achieve excellence in the Certified Emergency Nurse CEN exam In these pages you ll find an in depth exploration of the core concepts and practical knowledge necessary for success in the CEN exam From the intricate details of cardiovascular emergencies such as managing acute coronary syndrome and heart failure to the essential techniques for handling respiratory crises like pulmonary embolism and pneumothorax this guide covers it all You will delve into neurological emergencies gaining a thorough understanding of stroke seizures and traumatic brain injuries and learn to effectively manage gastrointestinal emergencies including abdominal pain and GI bleeding The guide also addresses renal and genitourinary emergencies such as acute kidney injury and urinary tract infections and provides crucial insights into obstetric and gynecologic emergencies including pregnancy related complications and postpartum hemorrhage Pediatric emergencies are explored with a focus on the unique considerations required when treating children while trauma management is covered comprehensively including initial

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ICD-9-CM Inpatient Coding Reference and Study Guide

Ba Kobayashi, 2010-07 If you need to have a strong understanding of how ICD 9 CM diagnosis and procedure codes are determined then you have chosen the right book ICD 9 CM Inpatient Coding Reference and Study Guide The author designed a book that goes beyond the fundamentals that gets into the details of ICD 9 CM diagnosis and procedure code assignment as would be experienced on the job This user friendly reference teaches coders how to handle many coding situations while also being comprehensive enough to teach someone with a basic knowledge of medical coding how to move to the next level of advanced inpatient coding Updated every year to reflect the annual ICD 9 CM coding changes the text enables HIM professionals to master the concepts of medical coding while also gaining critical knowledge to pass the CCS exam administered by AHIMA and the CPC H exam from the AAPC The book also serves as an excellent desk reference and resource for coders who need to refresh their ICD 9 CM coding skills Among the topics covered in Volume 1 are inpatient coding guidelines coding conventions coding tables and a drug reference However the heart of this manual is the body system analysis based on chapters 1-17 of the Tabular list in Volume I of the ICD 9 CM Official Coding Guidelines The chapters are categorized by body system such as respiratory digestive et al The chapters in this study guide follow the same sequence as the Official Coding Guidelines All chapters in addition to highlighting basic coding guidelines contain situation based coding tips and coding examples A quiz follows each chapter reinforcing concepts in a rigorous manner that applies directly to the professional coding environment The book also contains a selective discussion of invasive procedures that the coder will most likely encounter on the job and on the exam At the end of ICD 9 CM Inpatient Coding Reference and Study Guide are 15 case studies providing the reader with an opportunity to assess their ICD 9 CM coding skill set and speed at coding inpatient medical records Each record contains a face sheet history physical progress notes and answer sheet Some of the case studies contain ER reports consultations as well as operative and pathology reports The answer key at the end of this study guide contains a rationale for all code assignments 456 short answer questions 116 multiple choice questions 15

full medical record case studies Each question is highly relevant and reflects a coding situation most hospital based inpatient coders will face The text strives to ensure the reader understands every diagnosis and procedure discussed thorough discussion of symptoms standard treatment protocols and medications Coding examples and quizzes help clarify the information presented Linda Kobayashi BA RHIT CCS has been a coder and coding manager for almost 20 years Since 1998 Ms Kobayashi has owned and operated Codebusters Inc a nationwide coding consulting company Widely regarded as a medical coding and auditing expert she has conducted workshops on a variety of coding topics including CCS Exam preparation workshops Throughout her career the author has remained professionally active as an AHIMA member as well as a member of her state association CHIA California health Information Association Her formal training includes a teaching credential from California State University Los Angeles a B A degree in English Literature from University of California Los Angeles an RHIT from AHIMA after completing the RHIT program at East Los Angeles College and a CCS certificate from AHIMA Extensive experience as a hands on coder auditor and educator and has given the author the expertise to help coders prepare for the professional coding environment

Human Anatomy and Physiology: A Study Guide

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