

# THE RESPIRATORY SYSTEM

Body cells require an abundant and continuous supply of oxygen to carry out their activities. As cells use oxygen, they release carbon dioxide, a waste product that must be eliminated from the body. The circulatory and respiratory systems are intimately involved in obtaining and delivering oxygen to body cells and in eliminating carbon dioxide from the body. The respiratory system is responsible for gas exchange between the pulmonary blood and the external environment (that is, external respiration). The respiratory system also plays an important role in maintaining the acid-base balance of the blood.

Questions and activities in this chapter consider both the anatomy and physiology of the respiratory system structures.

#### FUNCTIONAL ANATOMY OF THE RESPIRATORY SYSTEM

- The following questions refer to the primary bronchi. In the spaces provided, insert the letter R to indicate the right primary bronchus and the letter L to indicate the left primary bronchus.

  - 2. Which of the main bronchi is more horizontal? \_\_\_\_\_\_
  - 3. Which of the main bronchi is the most common site for lodging of a foreign object

that has entered the respiratory passageways?

# **Anatomy And Physiology Respiratory System Workbook**

**AW Rasmussen** 

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Egan's Fundamentals of Respiratory Care E-Book Robert M. Kacmarek, James K. Stoller, Albert J. Heuer, 2019-12-18 Textbook and Academic Authors Association TAA McGuffey Longevity Award Winner 2024 Learn the principles and skills you ll need as a respiratory therapist Egan's Fundamentals of Respiratory Care 12th Edition provides a solid foundation in respiratory care and covers the latest advances in this ever changing field Known as the bible for respiratory care this text makes it easy to understand the role of the respiratory therapist the scientific basis for treatment and clinical applications Comprehensive chapters correlate to the 2020 NBRC Exam matrices preparing you for clinical and exam success Written by noted educators Robert Kacmarek James Stoller and Albert Heuer this edition includes new chapters on heart failure as well as ethics and end of life care plus the latest AARC practice guidelines Updated content reflects the newest advances in respiratory care preparing you to succeed in today s health care environment UNIQUE Mini Clinis provide case scenarios challenging you to use critical thinking in solving problems encountered during actual patient care Decision trees developed by hospitals highlight the use of therapist driven protocols to assess a patient initiate care and evaluate outcomes Rules of Thumb highlight rules formulas and key points that are important to clinical practice Learning objectives align with the summary checklists highlighting key content at the beginning and at the end of each chapter and parallel the three areas tested on the 2020 NBRC Exam matrices Learning resources on the Evolve companion website include an NBRC correlation guide image collection lecture notes Body Spectrum electronic anatomy coloring book and an English Spanish glossary Student workbook provides a practical study guide reflecting this edition of the text offering numerous case studies experiments and hands on activities Available separately Full color design calls attention to the text's special features and promotes learning Glossary includes key terms and definitions needed for learning concepts NEW Heart Failure chapter covers the disease that is the most frequent cause of unscheduled hospital admissions NEW Ethics and End of Life Care chapter explains related issues and how to help patients and their families NEW Improved readability makes the text easier to read and concepts easier to understand NEW Updated practice guidelines from the AARC American Association for Respiratory Care are included within the relevant chapters NEW Updated chapters include topics such as arterial lines stroke ACLS PALS hemodynamics polysomnography waveform interpretation and laryngectomy NEW Streamlined format Egan's Fundamentals of Respiratory Care - E-Book James K. Stoller, Albert eliminates redundancy and complex verbiage J. Heuer, David L. Vines, Robert L. Chatburn, Eduardo Mireles-Cabodevila, 2024-01-19 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Respiratory Therapy Master the principles and skills you ll need to succeed as a respiratory therapist Egan's Fundamentals of Respiratory Care 13th Edition provides a solid foundation in respiratory care and covers the latest advances in this dynamic field For more than 50 years this text has been the go to resource to understand the role of the respiratory therapist the scientific basis for treatment and clinical applications Comprehensive

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