

Respiratory System

Chapter 22 Notes

Anatomy and Physiology 2

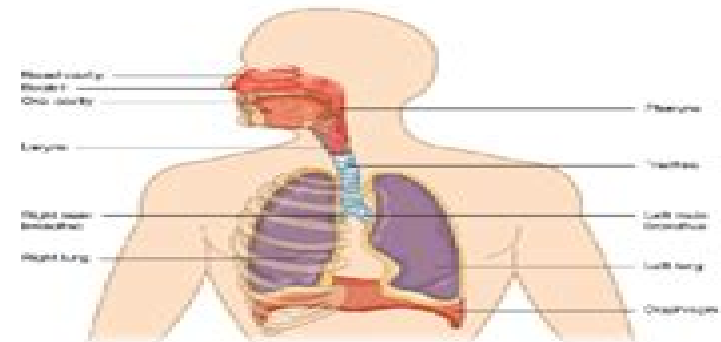
Functions of the Respiratory System

- Extensive surface area for gas exchange
- Moves air to and from the exchange surfaces of lungs
- Defense (MALT)
- Producing sounds
- Facilitating the detection of olfactory stimuli by olfactory receptors

Processes of Respiration

Respiratory System vs. Cardiovascular System

- **Pulmonary ventilation (breathing)**- movement of air into and out of lungs
- **External respiration**-O₂ and CO₂ exchange between lungs and blood
- **Transport**-O₂ and CO₂ in blood
- **Internal respiration**-O₂ and CO₂ exchange between systemic blood vessels and tissues



Gross Anatomy

Upper Respiratory Tract-structures in the **head and neck**
Lower Respiratory Tract-structures in the **thoracic cavity**

Respiratory Muscles: Diaphragm and other respiratory muscles promote ventilation

Functional Anatomy

Conducting zone-conduits to gas exchange sites

- Includes all other respiratory structures; cleanses, warms, humidifies air

Respiratory zone-site of gas exchange

- Microscopic structures-respiratory **bronchioles, alveolar ducts, and alveoli**

Anatomy And Physiology Chapter 1digestive System Packet

Robert Bentley Todd



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Anatomy and Physiology Workbook For Dummies Janet Rae-Dupree,Pat DuPree,2007-12-05 An excellent primer for learning the human body An anatomy and physiology course is required for medical and nursing students as well as for others pursuing careers in healthcare Anatomy Physiology Workbook For Dummies is the fun and easy way to get up to speed on anatomy and physiology facts and concepts This hands on workbook provides students with useful exercises to practice identifying specific muscle groups and their functions memory exercises as well as diagrams and actual demonstrations that readers can personally enact to illustrate the concepts Gastrointestinal Anatomy and Physiology John F. Reinus,Douglas Simon,2014-05-05 Gastroenterologists require detailed knowledge regarding the anatomy of the GI system in order to understand the disturbances caused by diseases they diagnose and treat Gastrointestinal Anatomy and Physiology will bring together the world s leading names to present a comprehensive overview of the anatomical and physiological features of the gastrointestinal tract Full colour and with excellent anatomical and clinical figures throughout it will provide succinct authoritative and didactic anatomic and physiologic information on all the key areas including GI motility hepatic structure GI hormones gastric secretion and absorption of nutrients GI trainees will enjoy the self assessment MCQs written to the level they will encounter during their Board exams and the seasoned gastroenterologist will value it as a handy reference book and refresher for re certification exams *Emergency Care and Transportation of the Sick and Injured Advantage Package* American Academy of Orthopaedic Surgeons (AAOS),2021-02-12 Since 1971 Emergency Care and Transportation of the Sick and Injured has advanced how EMS education is delivered to help train exceptional EMS professionals around the globe **Nancy Caroline's Emergency Care in the Streets Essentials Package** American Academy of Orthopaedic Surgeons (AAOS),2022-07-29 Nancy Caroline s Emergency Care in the Streets Essentials Package includes ContentInstructionStudent Learning MaterialsTextbookInstructor GuidePractice Activities Audiobook Assessments Analytics Slides Only available when assigned by instructors Nancy Caroline s Emergency Care in the Streets Ninth Edition is the newest evolution of the premier paramedic education training program This legendary paramedic textbook was first developed by Dr Nancy Caroline in the early 1970s and transformed paramedic education Today lead editors Bob Elling and Barb Aehlert along with the American Academy of Orthopaedic Surgeons are proud to continue this legacy and set the new gold standard for the paramedics of tomorrow The Ninth Edition offers cutting edge evidence based content that meets or exceeds the most current scientific recommendations developed by the International Liaison Committee on Resuscitation ILCOR and the ECC Guidelines established by the American Heart Association and other resuscitation councils around the world Clear chapter objectives align with the 2019 National EMS Scope of Practice Model and 2021 EMS Education Standards Thoroughly reviewed by medical doctors and subject matter experts the Ninth Edition teaches students the technical skills required of today s paramedic while emphasizing other important professional attributes including critical

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