

## 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**-O<sub>2</sub> and CO<sub>2</sub> exchange between lungs and blood
- **Transport**-O<sub>2</sub> and CO<sub>2</sub> in blood
- **Internal respiration**-O<sub>2</sub> and CO<sub>2</sub> 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 1respiratory System

**Michael Hoelscher**



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The Respiratory System Ian Peate,2025-03-17 PEATE S BODY SYSTEMS THE RESPIRATORY SYSTEM A CONCISE ILLUSTRATED AND ACCESSIBLE GUIDE TO THE RESPIRATORY SYSTEM Each of the twelve volumes in Peate s Body Systems series is rooted in the belief that a deep and thorough understanding of the human body is essential for providing the highest standard of care Offering clear accessible and up to date information on different body systems this series bridges the gap between complex scientific concepts and practical everyday applications in health and care settings This series makes for an invaluable resource for those committed to understanding the intricacies of human biology physiology and the various systems that sustain life The Respiratory System is the perfect companion for students and newly registered practitioners across nursing and allied health fields with an interest in respiratory care providing a comprehensive yet easy to digest guide for both academic and clinical application Equips healthcare students and practitioners with the necessary information to provide safe and competent care Features colourful illustrations to aid comprehension clarify complicated concepts and render content more engaging and accessible Empowers readers to adapt to a rapidly evolving healthcare landscape preparing them for the future of healthcare delivery Contains information necessary for effective patient care of those with Chronic Obstructive Pulmonary Disease COPD asthma lung cancer and other respiratory diseases and conditions

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readers 1 an introduction to respiratory physiology and exercise physiology as well as training theory 2 an understanding of how disease affects the respiratory muscles and the mechanics of breathing 3 an insight into the disease specific evidence based benefits of RMT 4 advice on the application of RMT as a standalone treatment and as part of a rehabilitation programme and finally 5 guidance on the application of functional training techniques to RMT The book is divided into two parts theory and practice Part I provides readers with access to the theoretical building blocks that support practice It explores the evidence base for RMT as well as the different methods of training respiratory muscles and their respective efficacy Part II guides the reader through the practical implementation of the most widely validated form of RMT namely inspiratory muscle resistance training Finally over 150 Functional RMT exercises are described which incorporate a stability and or postural challenge and address specific movements that provoke dyspnoea Respiratory Muscle Training theory and practice is supported by a dedicated website [www.physiobreathe.com](http://www.physiobreathe.com) which provides access to the latest information on RMT as well as video clips of all exercises described in the book Purchasers will also receive a three month free trial of the Physiotec software platform via [www.physiotec.ca](http://www.physiotec.ca) which allows clinicians to create bespoke training programmes including video clips that can be printed or emailed to patients Introductory overviews of respiratory and exercise physiology as well as training theory Comprehensive up to date review of respiratory muscle function breathing mechanics and RMT Analysis of the interaction between disease and respiratory mechanics as well as their independent and combined influence upon exercise tolerance Analysis of the rationale and application of RMT to over 20 clinical conditions e g COPD heart failure obesity mechanical ventilation Evidence based guidance on the implementation of inspiratory muscle resistance training Over 150 functional exercises that incorporate a breathing challenge [www.physiobreathe.com](http://www.physiobreathe.com) access up to date information video clips of exercises and a three month free trial of Physiotec s RMT exercise module via [www.physiotec.ca](http://www.physiotec.ca)

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Christine Sapienza,Bari Hoffman,2020-12-23 With Voice Disorders Fourth Edition authors Christine Sapienza PhD and Bari Hoffman PhD have created a comprehensive package for learning The authors uniquely blend voice science with voice treatments ranging from traditional interventions to recent advances in cellular therapies muscle strength training and treatments for special populations The text has been extensively updated with clinical evidence based information and comes with videos audio files and case studies This fourth edition offers a comprehensive combined study of the respiratory laryngeal and neurological subsystems for voice Therapy approaches are categorized in terms of type such as physiologic combined modality and hygienic The new edition expands the approaches to voice therapy and better defines clinical decision making with information about humanistic communication strategies adherence and the multitude of variables that influence patient outcomes New to the Fourth Edition The anatomical illustrations are now in color Updated throughout to reflect the current state of research in the evaluation and treatment of voice and upper airway disorders Many new references depicting evidence based outcomes Updated clinical guidelines and position statements A thoroughly revised chapter on voice therapy Extensive content added on gender affirmation the role of the SLP along with various evaluation and therapy approaches

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