

The Respiratory System

Your respiratory system brings oxygen into your body and helps to remove carbon dioxide. Your lungs are part of your respiratory system. They sit in your chest, protected by your ribcage. Problems with your respiratory system can reduce the oxygen that reaches your lungs, which can make you unwell.

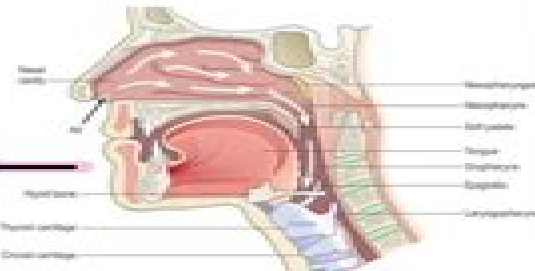
The Parts of the system

The respiratory system is made up of the:

- Nose**
- Pharynx (throat)**
- Larynx (voice box)**
- Trachea (windpipe)**
- Bronchi** (airway branching from the trachea and leading to smaller bronchioles)
- Lungs**

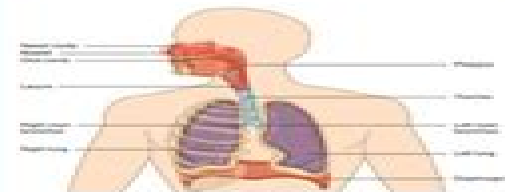
Nose and Nasal Cavity

Our nostrils/noses are the main route in which air enters the body.
 External (anterior) nares.
 Internal (posterior) nares.
 The nasal cavity is made up of:
 Nasal septum - Bone and hyaline cartilage
 Vestibule
 Nasal conchae
 Meatuses - (a) Superior, middle and inferior
 Olfactory region.
 Functions include:
 Air is warmed or cooled to match body temperature, moistened and filtered.
 Olfactory
 Sense of smell.



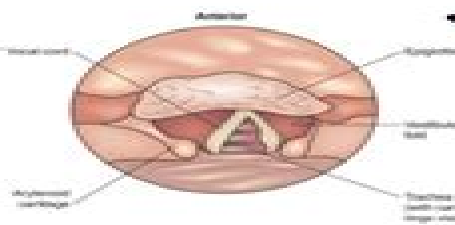
The Main Functions

- Oxygen Supplier:** To keep the body constantly supplied with oxygen.
- Elimination:** Removal of carbon dioxide.
- Gas Exchange:** The organs involved in this system oversee the gas exchanges that happen between the blood and the external environment.
- Passageway:** Create a passageway that allows air to reach the lungs.
- Humidifier:** Purify, humidify and warms incoming air.



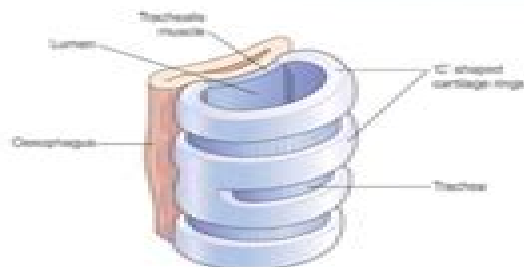
The Pharynx

Found posterior to the nasal cavity and extends down as far as the cricoid cartilage of the larynx. It is around 12-14cm long and lies immediately in front of the cervical vertebrae. It is divided into the:
Nasopharynx - Behind the nasal cavity and superior to the soft palate. Two openings of the auditory tube. On the posterior walls you can find the Pharyngeal tonsils.
Oropharynx - Extends from the soft palate to the level of the hyoid bone.
Laryngopharynx - Starts at the level of the hyoid bone and is the pathway that leads to the Oesophagus and the Larynx.



The Larynx

Larger in males: lies in the region of the 2nd - 5th cervical vertebrae.
 Made up of **9 cartilages**:
 - **a single cartilage:** epiglottis, thyroid and cricoid.
 - **a pair of cartilages:** arytenoid, corniculate and cuneiform and vocal cords.
Functions include:
 - Production of sounds, speech, protection, passage for air, humidifies, filters and warms the air.



The Trachea

- Extends from the larynx to the 5th thoracic vertebra where bifurcation (split in two) occurs.
- **25-30cm long, 2.5cm diameter.**
- **16-20 C-shaped cartilage rings.**
- **stops at the carina, splits (bifurcates) into the left/right main bronchus.**
- The trachea has 3 layers:
Outer - Fibrous, elastic tissue, encloses the cartilage.
Middle - Cartilage and bands of smooth muscle.
Inner - Ciliated, columnar epithelium with goblet cells (mucus cells).
Functions include: Support/tone, mucociliary escalator (mucus and cilia, moves mucus out of the lungs) and cough reflex.

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

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Damon Wiseley



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Certified Respiratory Therapist Exam Review Guide Albert Heuer, Louis Sinopoli, 2010-11-15. Certified Respiratory Therapist Review Guide is a comprehensive study guide for respiratory therapy students and graduates of accredited respiratory therapy education programs who are seeking to take the entry level Certified Respiratory Therapist CRT credentialing exam from the National Board for Respiratory Care (NBRC). This unique review guide devotes extensive coverage to two problematic areas for credentialing exam candidates which are not covered in any of the other texts: 1. test-taking skills and 2. key points to remember in taking the NBRC computerized exams. Special emphasis is also given to material and subject areas which have proven to be especially challenging for exam candidates such as basic pulmonary function testing, arterial blood gas (ABG) interpretation, monitoring critically ill ICU patients, neonatal and pediatric care, recommending modifications to therapy, and more. Certified Respiratory Therapist Review Guide is authored by experts who take the credentialing exam annually, so you can be sure the content and format of this guide is current.

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Do you remember what egophony tactile fremitus S4 heart sounds and JVD may mean for your patient This respiratory therapy board exam study guide is packed with useful tips and information to help you answer these questions Neonatal and Pediatric Respiratory Care Study Guide Elissa Simon,2021-01-08 Critical Care Study Guide Gerard J. 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 CMSRN Study Guide Tyler L Jackson,2024-09-30 Are you ready to elevate your nursing career and enhance your impact on patient care The journey to becoming a Certified Medical Surgical Registered Nurse CMSRN is both challenging and rewarding and this comprehensive guide is your key to unlocking that potential You will find an in depth exploration of the CMSRN exam designed to prepare you for success in this vital nursing specialty Covering essential topics such as cardiovascular respiratory gastrointestinal renal neurological musculoskeletal hematological integumentary and oncological systems this resource provides you with a solid foundation of knowledge necessary to excel in medical surgical nursing Each chapter meticulously breaks down complex concepts making them accessible and easy to understand while reinforcing the critical thinking skills required in the field Beyond the theoretical knowledge this guide emphasizes practical applications including patient management nursing interventions and pharmacology With a focus on evidence based practices you will learn how to assess and care for diverse patient populations effectively all while navigating the nuances of contemporary healthcare settings Detailed explanations and real life case studies will deepen your understanding of common conditions and prepare you to address the unique challenges you will face as a CMSRN The book offers valuable insights into effective study strategies and test taking tips tailored specifically for the CMSRN exam You will discover how to approach multiple choice questions with confidence enhancing your test taking skills to maximize your chances of success The included practice

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Comprehensive Respiratory Therapy Exam Preparation Guide (book) Craig L. Scanlan, Al Heuer, 2013-09-09 The Ultimate Review Guide for the CRT RRT and CSE Exams Continuous Up to date NBRC Examination Guidelines and Correlations on Companion Website Comprehensive Respiratory Therapy Exam Preparation Guide Second Edition is a comprehensive study guide for respiratory therapy students and graduates of accredited respiratory therapy education programs who are seeking to take the Certified Respiratory Therapist CRT or Registered Respiratory Therapist RRT credentialing exams from the National Board for Respiratory Care NBRC Comprehensive Respiratory Therapy Exam

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