

# 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.

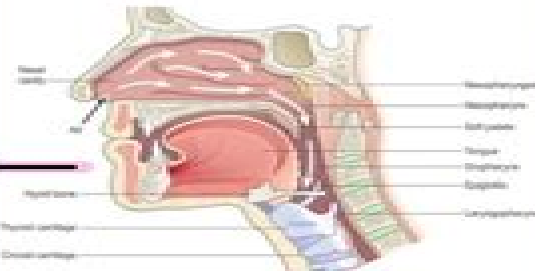
## The Parts of the system

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**

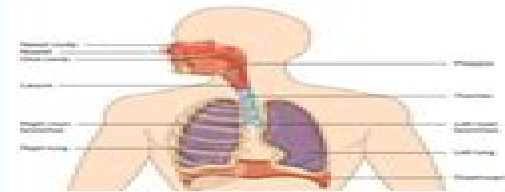
## Nose and Nasal Cavity

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.



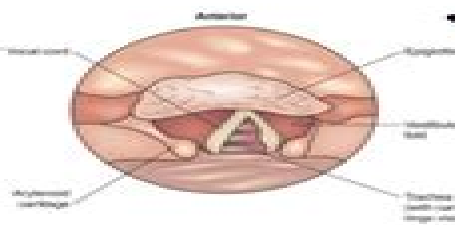
## The Main Functions

- **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.



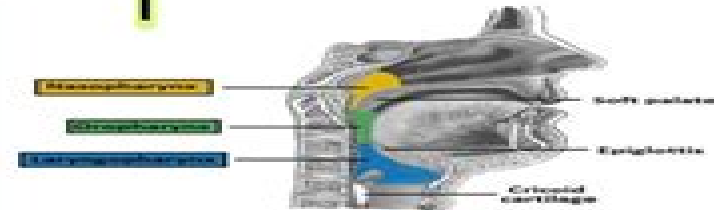
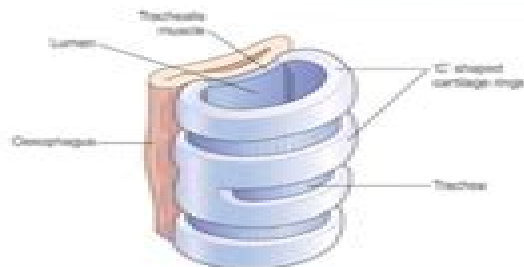
## The Pharynx

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.
  - **20-25cm 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...

# Respiratory System Guide

**David A. Kaminsky**



## **Respiratory System Guide:**

**Respiratory System (Speedy Study Guides)** Speedy Publishing, 2014-06-21 A guide about the respiratory system is a great benefit for teachers in the classroom setting This reference guide can be a great resource for teaching the importance of the respiratory system as well as the many parts of it The guide is also a great resource for parents as well This guide can be used by parents who want to spark a life time interest of not only the respiratory system and its parts but other systems of the body as well *The Respiratory System E-Book* Caroline R. Thomas, Gunchu Randhawa, 2022-06-04 The Systems of the Body series has established itself as a highly valuable resource for medical and other health science students following today's systems based courses Now thoroughly revised and updated in this third edition each volume presents the core knowledge of basic science and clinical conditions that medical students need providing a concise fully integrated view of each major body system that can be hard to find in more traditionally arranged textbooks or other resources Multiple case studies help relate key principles to current practice with links to clinical skills clinical investigation and therapeutics made clear throughout Each print volume also now comes with access to the complete enhanced eBook version offering easy anytime anywhere access as well as self assessment material to check your understanding and aid exam preparation The Respiratory System provides highly accessible coverage of the core basic science principles in the context of clinical case histories giving the reader a fully integrated understanding of the system and its major diseases Introduction Structure and function of the respiratory system Elastic properties of the respiratory system Airflow and resistance in the respiratory system Pulmonary Ventilation Diffusion of Gases between air and blood The Pulmonary Circulation Carriage of gases by the blood and acid base balance Nervous control of breathing Chemical control of breathing Lung function tests Systems of the Body Series The Renal System The Musculoskeletal System The Nervous System The Digestive System The Endocrine System The Respiratory System The Cardiovascular System *The Netter Collection of Medical Illustrations: Respiratory System, Volume 3 - E-Book* David A. Kaminsky, 2024-02-15 Selected for 2025 Doody's Core Titles in Respiratory Therapy Offering a concise highly visual approach to the basic science and clinical pathology of the respiratory system this updated volume in The Netter Collection of Medical Illustrations the CIBA Green Books contains unparalleled didactic illustrations reflecting the latest medical knowledge Revised by Dr David A Kaminsky Respiratory System Volume 3 integrates core concepts of anatomy physiology and other basic sciences with common clinical correlates across health medical and surgical disciplines Classic Netter art updated and new illustrations and modern imaging continue to bring medical concepts to life and make this timeless work an essential resource for students clinicians and educators Provides a complete overview of the respiratory system through multidisciplinary coverage from physiology and biochemistry to adult and pediatric medicine and surgery Allows you to access rare illustrations in one convenient source from the only Netter work devoted specifically to the respiratory system Covers timely topics like COVID 19 and secondary infection diseases of the respiratory system RSV

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Respiratory System 2nd Edition provides a concise and highly visual approach to the basic sciences and clinical pathology of this body system This volume in The Netter Collection of Medical Illustrations the CIBA Green Books has been expanded and revised by Dr David Kaminsky to cover important topics like pulmonary hypertension COPD asthma drug resistant TB modern endoscopic and surgical techniques and more Classic Netter art updated illustrations and modern imaging make this timeless work essential to your library Access rare illustrations in one convenient source from the only Netter work devoted specifically to the respiratory system Get a complete overview of the respiratory system through multidisciplinary coverage from physiology and biochemistry to adult and pediatric medicine and surgery Gain a quick understanding of complex topics from a concise text atlas format that provides a context bridge between primary and specialized medicine Grasp the nuances of the pathophysiology of today's major respiratory conditions including pulmonary hypertension COPD asthma environmental lung disease sleep disorders infections of the immunocompromised neonatal breathing disorders and drug resistant TB and modern endoscopic and surgical techniques through advances in molecular biology and radiologic imaging Benefit from the expertise of the new editor David Kaminsky MD who contributes significant experience in asthma and general pulmonary and critical care medicine and his team of world class contributors Clearly see the connection between basic and clinical sciences with an integrated overview of normal structure and function as it relates to pathologic conditions Apply a visual approach with the classic Netter art updated illustrations and modern imaging to normal and abnormal body function and the clinical presentation of the patient Tap into the perspectives of an international advisory board for content that reflects the current global consensus **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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*Kendig's Disorders of the Respiratory Tract in Children E-Book* Robert W. Wilmott, Andrew Bush, Robin R Deterding, Felix Ratjen, Peter Sly, Heather Zar, Albert Li, 2018-01-17 Now in a fully updated 9th Edition Kendig's Disorders of the Respiratory Tract in Children by Drs Robert Wilmott Andrew Bush Robin Deterding and Felix Ratjen continues to provide authoritative evidence based information to residents fellows and practitioners in this wide ranging specialty Bringing key knowledge from global experts together in one easy to understand volume it covers everything from the latest basic science and its relevance to today's clinical issues to improving patient outcomes for the common and rare respiratory problems found in newborns and children worldwide Uses succinct straightforward text numerous tables and figures summaries at the end of each chapter and more

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Clare Stephenson, 2011-07-26 The Complementary Therapist s Guide to Conventional Medicine is a unique textbook for students and practitioners of complementary medicine offering a systematic comparative approach to Western and Eastern medicine Practitioners of complementary medicine increasingly find themselves working alongside conventionally trained doctors and nurses and it is vital for them to develop a core understanding of conventional medical language and philosophy The book is designed as a guide to understanding conventional medical diagnoses symptoms and treatments whilst also encouraging the reader to reflect on and translate how these diagnoses may be interpreted from a more holistic medical perspective Throughout the text the practitioner student is encouraged to see that conventional and more holistic interpretations are not necessarily contradictory but instead are simply two different approaches to interpreting the same truth that truth being the patient s symptoms After introductory sections on physiology pathology and pharmacology there follow sections devoted to each of the physiological systems of the body In these the physiology of each system is explored together with the medical investigation symptoms and treatments of the important diseases which might affect that system As each disease is described the reader is encouraged to consider the corresponding Chinese medical perspective The textbook concludes with chapters relating specifically to dealing with patients in practice In particular these focus on warning signs of serious disease supporting patients on medication and ethical issues which may arise from management of patients which is shared with conventional practitioners The book also offers a detailed summary of Red Flag symptoms which are those which should be referred for Western medical investigation or emergency medical treatment and also a guide to how patients can be safely supported in withdrawing from conventional medication when this is clinically appropriate Those wishing to use the text for systematic study can make use of the question and problem solving approach

offered on the accompanying CD to which references to self study exercises appear at regular stages throughout the book This means that the text can be easily adapted to form the basis of a study course in clinical medicine for students of complementary medicine In addition to the self testing questions and answers the supporting CD also contains checklists for revision and full colour illustrations ABOUT THE AUTHOR Clare Stephenson is a qualified medical practitioner who worked in hospital medicine general practice and public health medicine for a number of years before training in Traditional Chinese Medicine TCM and acupuncture Over the course of a decade she developed and taught an undergraduate course for students of Chinese medicine on Western medicine and how it relates to TCM She is particularly committed to encouraging communication and understanding between practitioners of different health disciplines She currently works as a GP in Oxfordshire Approx 734 pages

*Murray and Nadel's Textbook of Respiratory Medicine E-Book* Robert J. Mason,V.Courtney Broadbuss,Thomas R Martin,Talmadge E King,Dean Schraufnagel,John F. Murray,Jay A. Nadel,2010-06-09 Murray and Nadel's Textbook of Respiratory Medicine has long been the definitive and comprehensive pulmonary disease reference Robert J Mason MD now presents the fifth edition in full color with new images and highlighted clinical elements The fully searchable text is also online at [www.expertconsult.com](http://www.expertconsult.com) along with regular updates video clips additional images and self assessment questions This new edition has been completely updated and remains the essential tool you need to care for patients with pulmonary disease Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability Compatible with Kindle nook and other popular devices Master the scientific principles of respiratory medicine and its clinical applications Work through differential diagnosis using detailed explanations of each disease entity Learn new subjects in Pulmonary Medicine including Genetics Ultrasound and other key topics Grasp the Key Points in each chapter Search the full text online at [expertconsult.com](http://expertconsult.com) along with downloadable images regular updates more than 50 videos case studies and self assessment questions Consult new chapters covering Ultrasound Innate Immunity Adaptive Immunity Deposition and Clearance Ventilator Associated Pneumonia Find critical information easily using the new full color design that enhances teaching points and highlights challenging concepts Apply the expertise and fresh ideas of three new editors Drs Thomas R Martin Talmadge E King Jr and Dean E Schraufnagel Review the latest developments in genetics with advice on how the data will affect patient care

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