

# The Respiratory System

## The Bronchial Tree

- Right and left bronchus
- Right is more acute in angle and shorter by 2.5cm, resulting in more foreign objects entering the right lung.
- Left bronchus is lower and narrower.
- It divides into:
  - Secondary bronchi
  - Tertiary bronchi
  - Bronchioles
  - Terminal bronchioles
- Alveoli (external respiration takes place, approx 500 million that cover 100m squared)



## The Lungs

- cone shaped lungs with an apex, base and costal/medial surface
- Pleural membranes: parietal pleura, potential space and visceral pleura
- Lobes: right lung has 3, left lung has 2
- Lobules
- Alveoli
- Arteries
- Veins
- Bronchioles
- The top of the lung is called the apex, lies 2" above the clavicle.

## The Hilum

- Each lung has an **hilum** for:
  - **blood vessels** (pulmonary arteries and veins)
  - **the bronchi** (a)
  - **lymph vessels**
  - **nerves** (sympathetic and parasympathetic)

## The Pleura

- double layer of serous membrane, covers the lungs (visceral) and inside the chest wall (parietal)
- a potential space between the two layers is filled with **serous fluid** and prevents friction when we breathe.



## The Alveoli

Alveoli are **small air sacs** in the lungs which are specially adapted for **gas exchange**.

The walls of the alveoli separating the air from the blood are very thin allowing gases to diffuse quickly. The blood supply to the alveoli is very good to constantly supply blood with little oxygen and a lot of carbon dioxide keeping a high concentration gradient. The walls of the alveoli are kept moist to allow gases to dissolve into the fluid for gas exchange with the blood.



A diagram showing several alveoli and the capillaries supplying them with blood.



A diagram showing a single alveolus with the oxygen going into the blood and carbon dioxide leaving the blood.



A diagram showing the bronchioles.

## The Bronchioles

The bronchioles are small **branches of the bronchi** which link the alveoli in the lungs to the trachea. There are many bronchioles in the lungs. The bronchioles **branch out** and contain around **1000 million alveoli**.

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

# Respiratory System Guide

**Andrew J Connolly, Walter E.  
Finkbeiner, Philip C. Ursell, Richard L.  
Davis**

## Respiratory System Guide:

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*Handbook of Physiology: The respiratory system*, 1985

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Exploring Zoology: A Laboratory Guide David G. Smith, Michael P. Schenk, 2014-01-01 Exploring Zoology A Laboratory Guide is designed to provide a comprehensive hands on introduction to the field of zoology This manual provides a diverse series of observational and investigative exercises delving into the anatomy behavior physiology and ecology of the major invertebrate and vertebrate lineages

A Beginners Guide to Yoga Breathing Techniques Trey Andrews, 2024-12-12 Yoga breathing or pranayama is an ancient practice that is as relevant today as it was thousands of years ago While yoga is often associated with physical postures and flexibility the breathing techniques are arguably the core of the practice Pranayama is not merely about taking deep breaths it is about cultivating a conscious connection between mind body and spirit through breath control This connection has profound implications for both physical health and mental well being The term pranayama is derived from two Sanskrit words prana meaning life force or breath and ayama meaning extension or control Thus pranayama can be understood as the

extension or regulation of the life force Breath is the most vital process in the body influencing the activities of each and every cell and most importantly the mind The breath is intrinsically linked to our emotions and state of mind When we are anxious or stressed our breath becomes shallow and rapid when we are calm and relaxed our breath is slow and deep The practice of yoga breathing aims to harness this life force improve our breathing patterns and as a result enhance our overall health By learning to control the breath we can influence the nervous system foster a sense of peace and improve mental clarity Yoga breathing can also be a powerful tool for managing stress anxiety and other mental health issues In modern times the importance of pranayama has been acknowledged not only by yogis but also by the scientific community Numerous studies have shown that controlled breathing exercises can lower blood pressure reduce stress hormones and improve lung function This has led to a resurgence of interest in pranayama as part of holistic health and wellness practices However it is crucial to approach pranayama with respect and awareness It is not merely a physical exercise it is a profound practice that can have deep psychological effects As with any form of yoga pranayama should be practiced with mindfulness and an understanding of one's own limits In this eBook we will delve into various aspects of yoga breathing We will start with the basics exploring the foundational techniques that are essential for any pranayama practice From there we will move on to more advanced techniques such as Ujjayi breath Alternate Nostril Breathing and Kapalabhati Each of these techniques has its own unique benefits and applications By the end of this series you will have a comprehensive understanding of yoga breathing its benefits and how to integrate it into your daily life Whether you are a beginner or an experienced practitioner this series will provide valuable insights and tools to deepen your practice

*The Complementary Therapist's Guide to Conventional Medicine E-Book* 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

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**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

*A Practical Guide to the Histology of the Mouse* Cheryl L. Scudamore, 2014-02-10 A Practical Guide to the Histology of the Mouse provides a full colour atlas of mouse histology Mouse models of disease are used extensively in biomedical research with many hundreds of new models being generated each year Complete phenotypic analysis of all of these models can benefit from histologic review of the tissues This book is aimed at veterinary and medical pathologists who are unfamiliar with mouse tissues and scientists who wish to evaluate their own mouse models It provides practical guidance on the collection sampling and analysis of mouse tissue samples in order to maximize the information that can be gained from these tissues As well as illustrating the normal microscopic anatomy of the mouse the book also describes and explains the common anatomic variations artefacts associated with tissue collection and background lesions to help the scientist to distinguish these changes from experimentally induced lesions This will be an essential bench side companion for researchers and practitioners looking for an accessible and well illustrated guide to mouse pathology Written by experienced pathologists and specifically tailored to the needs of scientists and histologists Full colour throughout Provides advice on sampling tissues necropsy and recording data Includes common anatomic variations background lesions and artefacts which will help non experts understand whether histologic variations seen are part of the normal background or related to their experimental manipulation

*Autopsy Pathology: A Manual and Atlas* Andrew J Connolly, Walter E. Finkbeiner, Philip C. Ursell, Richard L. Davis, 2015-09-23 A mainstay for pathology residents Autopsy Pathology is designed with a uniquely combined manual and atlas format that presents today s most complete coverage of performing interpreting and reporting post mortem examinations This lasting and useful medical reference book offers a practical step by step approach to

discussing not only the basics of the specialty but the performance of specialized autopsy procedures as well. Material is divided into two sections for ease of use: a manual covering specific autopsy procedures, biosafety, generation of autopsy reports, preparation of death certificates and other essential subjects; and an atlas organized by organ system which captures the appearance of the complete spectrum of autopsy findings. Offers expanded coverage of microscopic anatomy. Includes a chapter on performing special dissection procedures that may not be covered during a typical residency. Examines important techniques such as autopsy photography and radiology, microscopic examination, supplemental laboratory studies, and other investigative approaches. Addresses the latest legal, social, and ethical issues relating to autopsies as well as quality improvement and assurance. Presents more than 600 full color photographs depicting common gross and microscopic autopsy findings for every part of the body. Correlates pathologic findings with their clinical causes to enhance diagnostic accuracy. Improved images in the Atlas section provide greater visual understanding. Additional online features include dissection videos demonstrating autopsy techniques, downloadable commonly used forms for autopsy reports, and calculators for weights and measures. Expert Consult eBook version included with purchase. This enhanced eBook experience offers access to all of the text, figures, images, videos, forms, calculators, and references from the book on a variety of devices. Respiratory System

Vincent Perez, 2001-08-24. Complete labeled illustrations of nine portions of the respiratory system. Illustrations by award winning medical illustrator Vincent Perez. Chart includes detailed diagrams of respiratory system: muscles of respiration, oxygenation of alveoli, cluster alveoli, cluster bronchus, nasal oral cavity, larynx, nasal septum, paranasal sinuses, bronchial tree.



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