

# 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

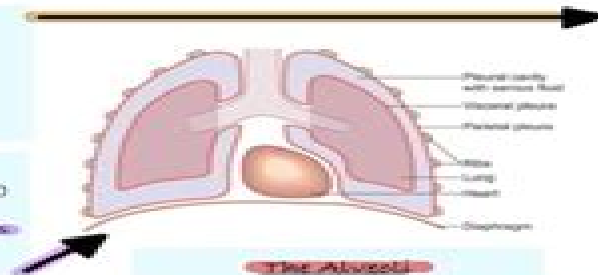
- **cone shaped** lungs with an **apex**, **base** and **costal/medial surface**
- **Pleural membranes**: parietal pleura, potential space and visceral pleura
- **Labels**: right lung has 3, left lung has 2
- **lobules**
- **alveoli**
- **bronchioles**
- **alveolar pores**
- The **top of the lung** is called the **apex** lies 2" above the clavicle.

## The Hilum

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

## The Pleura

- **double layer** of serous membrane, **cover the lungs** (visceral) and **inside the chest wall** (parietal).
- **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...

# Study Guide Respiratory

**Craig L. Scanlan, Al Heuer**



## **Study Guide Respiratory:**

Mechanical Ventilation Final Exam Johnny Lung, 2019-09-26 Are you ready to ace your Mechanical Ventilation final exam If so did you know that going through practice questions in one of the most effective strategies that you can use to learn the information that you need to know That is exactly why you need to grab a copy of this book Inside we re going to share 175 of our best practice questions with you All of course designed to help you prepare for and pass your Mechanical Ventilation final exam So if you re ready to boost your knowledge to a new level I ll see you on the inside About the Author Johnny Lung the founder of Respiratory Therapy Zone is a Registered Respiratory Therapist who has helped thousands of students pass the licensure board exams through books videos study guides and online courses You can learn more by going to RespiratoryTherapyZone.com What Students are Saying I passed it on my first attempt just like you said Deanna H They helped me pass boards on my first attempt and thankfully they re much more affordable than the other study guides out there Joy A I love their practice questions I highly recommend to their resources for the TMC Exam and Clinical Sims Megan L Their practice questions are challenging and really make you think So helpful Susanna H They keep the information basic and easy to understand without all the complicated nonsense I highly recommend their stuff for the board exams Timothy H

Comprehensive Respiratory Therapy Exam Preparation Guide (book) Craig L. Scanlan, Al Heuer, 2013-09-19

**Comprehensive Respiratory Therapy Exam Preparation** Albert J. Heuer, Narciso E. Rodriguez, 2020-02-11

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**Certified Respiratory Therapist Exam Review Guide** Craig L. Scanlan, Albert J. Heuer, Louis M. Sinopoli, 2009-06-09

**Patient Assessment Final Exam** Johnny Lung, 2019-10-21

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