

Learning Guide: Respiratory Diseases

Study Guidance: Students should understand the basic structure and function of the respiratory system, the hereditary and environmental risk factors (e.g., smoking) that lead to respiratory disease and measures to prevent respiratory diseases. Students should be familiar with various types of respiratory diseases (e.g., Tuberculosis, COPD, asthma).

Be able to discuss the following:

Structure and function of the respiratory system

Gas exchange in the lungs (gaseous and particulate)

Risk factors for respiratory disease (chemical, biological, genetic, behavioral)

Environmental exposure and respiratory diseases (e.g., inhaled particulate matter other than from smoking)

Smoking and lung diseases

Types of infectious lung diseases

Different types of respiratory diseases (lung cancer, COPD, Asthma)

Treating respiratory disease and impact on public health

Methods of respiratory disease prevention (e.g., isolation, behavioral changes, education)

Be able to define, identify, and differentiate the terms found in the lectures and the glossary with respect to cardiovascular diseases. Here are just some examples.

bronchiole

alveoli

pulmonary capillaries

upper respiratory tract

lower respiratory tract

mediastinum

esophagus

trachea

macrophages

epiglottis

interception

diffusion

phagocytic cells

obstructive lung disease

restrictive lung diseases

phagocytic cells

emphysema

bronchiectasis

byssinosis

sarcoidosis

asbestosis

lung cancer

rhinosinusitis

laryngitis

pneumonia

tuberculosis

pulmonary edema

pulmonary hypertension

Required Readings: None

Additional Readings and Information Used for Lectures and Glossary

- 1) Asthma for Dummies: By William E., MD, MBA Berger, chapters 1, 2, 5, 6, 7
- 2) <http://www.greenfacts.org/en/respiratory-diseases/respiratory-diseases-greenfacts.pdf>
- 3) http://en.wikipedia.org/wiki/Respiratory_disease
click on links for various diseases, but within diseases, no need to click on other diseases
- 4) <http://www.aolhealth.com/respiratory-health/learn-about-it/glossary>: AOL Health
- 5) http://www.gwdocs.com/health/eHA-eHA_Content_C-Generic_Content_Page_Template_1131123643112.html:
Medical Faculty Associates
- 6) <http://www.stayinginshape.com/3osfcorp/libv/g04.shtml>: *OSP Health Care*
- 7) http://lungdiseases.about.com/od/basicinformation/a/LD_list.htm: *About.com: Lung Diseases*
- 8) <http://www.lungusa.org/site/c.dvLUK9O0E/b.40415/>: *American Lung Association*