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
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.dvLUK900E/b.4041S/: American Lung Association