

Gould's Pathophysiology for the Health Professions, 7th Edition

Chapter 13: Respiratory System Disorders

Answer Key to Study Questions

1. Goblet cells secrete mucus to trap inhaled foreign particles before they can damage the lungs, and cilia sweep any secretions and foreign particles upward from the lungs to be coughed out.
2. a. They raise and extend the ribs and sternum to enlarge the thoracic cavity.
b. Quiet expiration involves relaxation of the diaphragm and external intercostals, but no energy expenditure. Forced expiration requires energy to contract many muscles—the internal intercostals, abdominal muscles, and neck and shoulder muscles.
3. a. Chemoreceptors in the medulla respond to elevated carbon dioxide and decreased pH (CSF), and chemoreceptors in the aortic arch and carotid bodies respond to low oxygen levels and decreased pH (arterial blood).
b. Carbon dioxide creates the primary respiratory drive.
4. Carbon dioxide forms carbonic acid, decreasing serum pH.
5. a. Carbon dioxide is transported primarily as bicarbonate ion, but some is transported as carbonic acid or carbaminohemoglobin or is dissolved in plasma.
b. Carbon monoxide can displace oxygen from hemoglobin.
6. Chronic hypoxia caused by respiratory impairment causes tachycardia and secondary polycythemia. Chronic hypercapnia leads to increased renal excretion of acids and increased production and reabsorption of bicarbonate, with elevated serum bicarbonate levels. Respiratory rate increases but is not effective compensation. Also, respiratory control depends on hypoxic drive.
7. Young children are more vulnerable because the airway is very small and easily obstructed, and the walls have less cartilage and therefore collapse more easily. With croup, the laryngeal mucosa is edematous and filled with exudate, causing obstruction. With epiglottitis, the epiglottis is swollen and cannot swing open, often leading to obstruction of the airway.
8. a. Mycoplasma or influenza virus type A or B causes primary atypical pneumonia.
b. Inflammation is interstitial (around the alveoli) in viral pneumonia. Pneumococcal pneumonia results in exudate (including red blood cells) that fills the alveoli. Both processes impair the diffusion of oxygen.
9. a. A positive tuberculin test indicates prior exposure to mycobacterium and formation of antibodies but does not indicate whether active disease is present. The test is also positive if the person has been immunized with bacillus Calmette-Guérin (BCG) vaccine.
b. Tuberculosis may be contagious, with cavitation, when erosion into the bronchi and blood vessels promotes the spread of organisms in the sputum and to other parts of the body.
c. Wear protective mask and gloves and wash hands frequently. Careful use of disinfectant is effective against mycobacterium (and spores) on all surfaces and equipment. Maintain adequate sterilization for resistant organisms and careful removal of tissue and any disposable equipment. Ensure good ventilation in the room.

Pathophysiology For The Health Professions

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