

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

Robert J. Hubert



Pathophysiology For The Health Professions:

Pathophysiology for the Health Professions - E-Book Barbara E. Gould, Ruthanna Dyer, 2014-04-11 A concise easy to understand introduction to the fundamentals Pathophysiology for the Health Professions 4th Edition helps you learn to identify disease processes and disorders Authors Barbara Gould and Ruthanna Dyer continue the tradition of a text known for its readability and vivid full color illustrations updated with the latest research and clinical advances Unique Challenge Think About and Emergency Treatment features help in applying the material to real life situations No matter which area in the healthcare field you may enter this book provides essential preparation for conditions encountered in clinical practice Concise and readable approach includes the information students need without overwhelming them even if they have a limited scientific background Unique Challenge feature asks What can go wrong with this structure or system as a way to help students facilitate progress by using previously learned knowledge Unique Think About boxes help with self evaluation test preparation and review Unique Emergency Treatment boxes list basic emergency measures these can be modified to fit specific professions established protocols or practice settings Research boxes discuss new developments problem areas of pathophysiology and complications associated with research Warning Signs boxes summarize conditions that may develop in patients Diagnostic tests and treatments are included for each of the major disorders Case studies in each chapter provide a basis for discussion or can be used as an assignment Study questions offer a self assessment on the material in each chapter Ready References in the appendix provide a quick lookup for anatomic terms conversion tables abbreviations and acronyms diagnostic studies and tests and more A companion Evolve website includes web links learning activities content updates and more New content on the causes and trends related to disease new drugs technology and treatment Coverage of obesity and its complications including an in depth discussion of metabolic syndrome Multiple disorder syndromes in the aged client DNA genetics and the Human Genome Project with current research on protein pathways in health proteomics and the implications for drug treatment and disease causation Coverage of autism Updated content on the H1N1 virus and communicable diseases HIV cancer causation and immunology and substance abuse to reflect common practices in the use of illicit street drugs as well as abuse of prescription medications Case studies revised to emphasize chronic diseases prevention and acute care and to apply to a wider range of health professions Appendices reorganized for improved reference and lookup

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