

Lesson Plan Function Of Respiratory System

Respiratory therapist

American specialty certifications of respiratory therapy include: CPFT and RPFT (Certified or Registered Pulmonary Function Technologist), ACCS (Adult Critical

A respiratory therapist is a specialized healthcare practitioner trained in critical care and cardio-pulmonary medicine in order to work therapeutically with people who have acute critical conditions, cardiac and pulmonary disease. Respiratory therapists graduate from a college or university with a degree in respiratory therapy and have passed a national board certifying examination. The NBRC (National Board for Respiratory Care) is responsible for credentialing as a CRT (certified respiratory therapist), or RRT (registered respiratory therapist) in the United States. The Canadian Society of Respiratory Therapists and provincial regulatory colleges administer the RRT credential in Canada.

The American specialty certifications of respiratory therapy include: CPFT and RPFT (Certified or Registered...

Globally Harmonized System of Classification and Labelling of Chemicals

lower respiratory system. Substances and mixtures of this hazard class are assigned to one of two hazard categories this hazard class on the basis of viscosity

The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) is an internationally agreed-upon standard managed by the United Nations that was set up to replace the assortment of hazardous material classification and labelling schemes previously used around the world. Core elements of the GHS include standardized hazard testing criteria, universal warning pictograms, and safety data sheets which provide users of dangerous goods relevant information with consistent organization. The system acts as a complement to the UN numbered system of regulated hazardous material transport. Implementation is managed through the UN Secretariat. Although adoption has taken time, as of 2017, the system has been enacted to significant extents in most major countries of the world. This includes...

Ventilator

American Association for Respiratory Care. 2016. Retrieved April 6, 2020. "Mechanical Ventilation of SARS Patients: Lessons from the 2003 SARS Outbreak"

A ventilator is a type of breathing apparatus, a class of medical technology that provides mechanical ventilation by moving breathable air into and out of the lungs, to deliver breaths to a patient who is physically unable to breathe, or breathing insufficiently. Ventilators may be computerized microprocessor-controlled machines, but patients can also be ventilated with a simple, hand-operated bag valve mask. Ventilators are chiefly used in intensive-care medicine, home care, and emergency medicine (as standalone units) and in anesthesiology (as a component of an anesthesia machine).

Ventilators are sometimes called "respirators", a term commonly used for them in the 1950s (particularly the "Bird respirator"). However, contemporary medical terminology uses the word "respirator" to refer to...

Influenza

infection. Other complications include acute respiratory distress syndrome, meningitis,

encephalitis, and worsening of pre-existing health problems such as asthma

Influenza, commonly known as the flu, is an infectious disease caused by influenza viruses. Symptoms range from mild to severe and often include fever, runny nose, sore throat, muscle pain, headache, coughing, and fatigue. These symptoms begin one to four (typically two) days after exposure to the virus and last for about two to eight days. Diarrhea and vomiting can occur, particularly in children. Influenza may progress to pneumonia from the virus or a subsequent bacterial infection. Other complications include acute respiratory distress syndrome, meningitis, encephalitis, and worsening of pre-existing health problems such as asthma and cardiovascular disease.

There are four types of influenza virus: types A, B, C, and D. Aquatic birds are the primary source of influenza A virus (IAV), which...

National Immunization Technical Advisory Group

084. PMID 24055304. WHO (2019). The Global Vaccine Action Plan 2011-2020 • Review And Lessons Learned. Geneva: WHO. "SAGE April 2017

NITAGs - Background - National Immunization Technical Advisory Group (NITAG) is an advisory committee composed of multidisciplinary experts responsible for providing information to national governments. This information is used to make evidence-based decisions regarding vaccines and immunization policies. The majority of industrialized countries, as well as some developing countries, have formally established advisory committees to guide their immunization policies, while other countries are working towards establishing such committees.

COVID-19

structure and function of previous coronaviruses causing diseases like severe acute respiratory syndrome (SARS) and Middle East respiratory syndrome (MERS)

Coronavirus disease 2019 (COVID-19) is a contagious disease caused by the coronavirus SARS-CoV-2. In January 2020, the disease spread worldwide, resulting in the COVID-19 pandemic.

The symptoms of COVID-19 can vary but often include fever, fatigue, cough, breathing difficulties, loss of smell, and loss of taste. Symptoms may begin one to fourteen days after exposure to the virus. At least a third of people who are infected do not develop noticeable symptoms. Of those who develop symptoms noticeable enough to be classified as patients, most (81%) develop mild to moderate symptoms (up to mild pneumonia), while 14% develop severe symptoms (dyspnea, hypoxia, or more than 50% lung involvement on imaging), and 5% develop critical symptoms (respiratory failure, shock, or multiorgan dysfunction). Older...

Emergency management

higher protection level should be used to prevent inhalation of molds into the respiratory system. Molds can be removed from hard surfaces by soap and water

Emergency management (also Disaster management) is a science and a system charged with creating the framework within which communities reduce vulnerability to hazards and cope with disasters. Emergency management, despite its name, does not actually focus on the management of emergencies; emergencies can be understood as minor events with limited impacts and are managed through the day-to-day functions of a community. Instead, emergency management focuses on the management of disasters, which are events that produce more impacts than a community can handle on its own. The management of disasters tends to require some combination of activity from individuals and households, organizations, local, and/or higher levels of government. Although many different terminologies exist globally, the activities...

Evolutionary neuroscience

They progressively started to develop cardiovascular systems, respiratory systems and immune systems to survive in their environments, which required bodies

Evolutionary neuroscience is the scientific study of the evolution of nervous systems. Evolutionary neuroscientists investigate the evolution and natural history of nervous system structure, functions and emergent properties. The field draws on concepts and findings from both neuroscience and evolutionary biology. Historically, most empirical work has been in the area of comparative neuroanatomy, and modern studies often make use of phylogenetic comparative methods. Selective breeding and experimental evolution approaches are also being used more frequently.

Conceptually and theoretically, the field is related to fields as diverse as cognitive genomics, neurogenetics, developmental neuroscience, neuroethology, comparative psychology, evo-devo, behavioral neuroscience, cognitive neuroscience...

Cystic fibrosis

(January 2007). "A novel host defense system of airways is defective in cystic fibrosis". American Journal of Respiratory and Critical Care Medicine. 175 (2):

Cystic fibrosis (CF) is a genetic disorder inherited in an autosomal recessive manner that impairs the normal clearance of mucus from the lungs, which facilitates the colonization and infection of the lungs by bacteria, notably *Staphylococcus aureus*. CF is a rare genetic disorder that affects mostly the lungs, but also the pancreas, liver, kidneys, and intestine. The hallmark feature of CF is the accumulation of thick mucus in different organs. Long-term issues include difficulty breathing and coughing up mucus as a result of frequent lung infections. Other signs and symptoms may include sinus infections, poor growth, fatty stool, clubbing of the fingers and toes, and infertility in most males. Different people may have different degrees of symptoms.

Cystic fibrosis is inherited in an autosomal...

ALS

important to monitor the respiratory function of people with ALS every three months because beginning NIV soon after the start of respiratory symptoms is associated

Amyotrophic lateral sclerosis (ALS), also known as motor neuron disease (MND) or—in the United States and Canada—Lou Gehrig's disease (LGD), is a rare, terminal neurodegenerative disorder that results in the progressive loss of both upper and lower motor neurons that normally control voluntary muscle contraction. ALS is the most common form of the broader group of motor neuron diseases. ALS often presents in its early stages with gradual muscle stiffness, twitches, weakness, and wasting. Motor neuron loss typically continues until the abilities to eat, speak, move, and, lastly, breathe are all lost. While only 15% of people with ALS also fully develop frontotemporal dementia, an estimated 50% face at least some minor difficulties with thinking and behavior. Depending on which of the aforementioned...

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