

Aha Cpr 2013 Study Guide

Electrocardiography Changes in the normal ECG pattern occur in numerous cardiac abnormalities, including:. These electrodes detect the small electrical changes that are a consequence of cardiac muscle depolarization followed by repolarization during each cardiac cycle (heartbeat). American Heart Association: Electrocardiography is the process of producing an electrocardiogram (ECG or EKG), a recording of the heart's electrical activity through repeated cardiac cycles. the Electrocardiogram: Part I: The Electrocardiogram and Its Technology". AHA/ACC/HRS Scientific Statements. Circulation. 115 (10). It is an electrogram of the heart which is a graph of voltage versus time of the electrical activity of the heart using electrodes placed on the skin bc2f05d026

Syncope (medicine) Syncope may also be associated with a short episode of muscle twitching. When consciousness and muscle strength are not completely lost, it is called presyncope. It is recommended that presyncope be treated the same as. (2006). There are sometimes symptoms before the loss of consciousness such as lightheadedness, sweating, pale skin, blurred vision, nausea, vomiting, or feeling warm. "AHA/ACCF Scientific Syncope (), commonly known as fainting or passing out, is a loss of consciousness and muscle strength characterized by a fast onset, short duration, and spontaneous recovery. It is caused by a decrease in blood flow to the brain, typically from low blood pressure. September 1, 2013, retrieved August 1, 2013, which cites: Strickberger S, Benson D, Biaggioni I, Callans D, Cohen M, Ellenbogen K, et al. Psychiatric causes can also be determined when a patient experiences fear, anxiety, or panic; particularly before a stressful event, usually medical in nature bc2f05d026

Cases of total oxygen deprivation are termed "anoxia", which can be hypoxic in origin (reduced oxygen availability) or ischemic in origin (oxygen deprivation due to a disruption in blood flow). Brain injury as a result of oxygen deprivation either due to hypoxic or anoxic mechanisms is generally termed hypoxic/anoxic injury... bc2f05d026 Discipline is used by parents to teach their children about expectations, guidelines and principles. Child discipline can involve rewards and punishments to teach self-control, increase desirable behaviors and decrease undesirable behaviors. While the purpose of child discipline is to develop and entrench desirable social habits in children, the ultimate goal is to foster particular judgement and morals so the child develops and maintains self-discipline... bc2f05d026

Cardiac arrest "2005 American Heart Association (AHA) guidelines for cardiopulmonary resuscitation (CPR) and emergency cardiovascular care (ECC) of pediatric Cardiac arrest (also known as sudden cardiac arrest [SCA]) is a condition in which the heart suddenly and unexpectedly stops beating. Coma and persistent vegetative state may result from cardiac arrest. Association (May 2006). Cardiac arrest is typically identified by the absence of a central pulse and abnormal or absent breathing. When the brain does not receive enough blood, this can cause a person to lose consciousness and brain cells begin to die within minutes due to lack of oxygen. When the heart stops, blood cannot circulate properly through the body and the blood flow to the brain and other organs is decreased bc2f05d026

Defibrillation A heart which is in asystole (flatline) cannot be restarted by defibrillation; it would be treated only by cardiopulmonary resuscitation (CPR) and medication, and then by cardioversion or defibrillation if it converts into a shockable rhythm. Although not fully understood, this process depolarizes a large amount of the heart muscle, ending the arrhythmia. Defibrillation delivers a dose of electric current (often called a counter-shock) to the heart. Subsequently, the body's natural pacemaker in the sinoatrial node of the heart is able to re-establish normal sinus rhythm. A device that administers defibrillation is called a. universal power supply) Heart Smarter: EMS Implications of the 2005 AHA Guidelines for ECC & CPR Archived 2007-06-16 at the Wayback Machine pp 15-16 Gold, Michael; Defibrillation is a treatment for life-threatening cardiac arrhythmias, specifically ventricular fibrillation (V-Fib) and non-perfusing ventricular tachycardia (V-Tach) bc2f05d026

CPR involves chest compressions for adults between 5 cm (2.0 in) and 6 cm (2.4 in) deep and at a rate of at least 100 to 120 per minute. The rescuer may also provide artificial ventilation by either exhaling air into the subject's mouth or nose (mouth-to-mouth resuscitation) or using a device that pushes air into the subject's lungs (mechanical ventilation). Current recommendations... bc2f05d026

Isoprenaline C, Edgerton JR, Ellenbogen KA, Gold MR, et al. It is used by injection into a vein, muscle, fat, or the heart, by inhalation, and in the past under the tongue or into the rectum. "2018 ACC/AHA/HRS Guideline on the Evaluation and Management of Patients With Bradycardia Isoprenaline, also known as isoproterenol and sold under the brand name Isuprel among others, is a sympathomimetic medication which is used in the treatment of acute bradycardia (slow heart rate), heart block, and rarely for asthma, among other indications. (August 2019) bc2f05d026

Cerebral hypoxia The American Heart Association and American Stroke Association (AHA/ASA) refined the definition of transient ischemic attack. TIA is now defined Cerebral hypoxia is a form of hypoxia (reduced supply of oxygen), specifically involving the brain; when the brain is completely deprived of oxygen, it is called cerebral anoxia. There are four categories of cerebral hypoxia; they are, in order of increasing severity: diffuse cerebral hypoxia (DCH), focal cerebral ischemia, cerebral infarction, and global cerebral ischemia. Prolonged hypoxia induces neuronal cell death via apoptosis, resulting in a hypoxic brain injury. "mini-stroke" bc2f05d026

Side effects of isoprenaline include rapid heart beat, heart palpitations, and arrhythmias, among others. Isoprenaline is a selective agonist of the β -adrenergic receptors, including both the β_1 - and β_2 -adrenergic receptors. By activating these receptors, it increases heart rate and the force of heart contractions. Chemically, isoprenaline is a synthetic catecholamine and is the N-isopropyl analogue of norepinephrine... bc2f05d026 Inadequate coronary artery blood flow, such as myocardial ischemia and myocardial infarction; bc2f05d026 Originally formed in Chicago in 1924, the American Heart Association... bc2f05d026 and electrolyte disturbances, such as hypokalemia... bc2f05d026 Cardiac arrest and resultant hemodynamic collapse often occur due to arrhythmias (irregular heart rhythms). Ventricular fibrillation and ventricular tachycardia are most commonly recorded. However... bc2f05d026 Serious and relatively common causes include acute coronary syndrome such as a heart attack (31%), pulmonary embolism (2%), pneumothorax, pericarditis (4%), aortic dissection (1%) and esophageal rupture. Other common causes include gastroesophageal reflux... bc2f05d026

Chest pain PMID 20956226. 110. "Highlights of the 2010 AHA Guidelines for CPR and ECC" (PDF). 971028. 1161/CIRCULATIONAHA. Archived from the original For pediatric chest pain, see chest pain in children. American Heart Association bc2f05d026

Cardiac rhythm disturbances, such as atrial fibrillation and ventricular tachycardia; bc2f05d026 Chest pain is pain or discomfort in the chest, typically the front of the chest. It may be described as sharp, dull, pressure, heaviness or squeezing. Associated symptoms may include pain in the shoulder, arm, upper abdomen, or jaw, along with nausea, sweating, or shortness of breath. It can be divided into heart-related and non-heart-related pain. Pain due to insufficient blood flow to the heart is also called angina pectoris. Those with diabetes or the elderly may have less clear symptoms. bc2f05d026

Child discipline "Non-punitive discipline". "How to Use Positive Discipline". Parenting. S2CID 143494726. Aha. To discipline means to instruct a person to follow a particular code of conduct. Retrieved 28 October 2009. Inside Child discipline is the methods used to prevent future unwanted behaviour in children. Markham, Dr. In its most general sense, discipline refers to systematic instruction given to a disciple. The word discipline is defined as imparting knowledge and skill, in other words, to teach. Laura bc2f05d026

American Heart Association They are known for publishing guidelines on cardiovascular disease and prevention, standards on basic life support, advanced cardiac life support (ACLS), pediatric advanced life support (PALS), and in 2014 issued the first guidelines for preventing strokes in women. The American Heart Association is also known for operating a number of highly visible public service campaigns starting in the 1970s, and also operates several fundraising events. In 2012, the AHA renewed its focus on hands-only CPR by carrying The American Heart Association (AHA) is a nonprofit organization in the United States that funds cardiovascular medical research, educates consumers on healthy living and fosters appropriate cardiac care in an effort to reduce disability and deaths caused by cardiovascular disease and stroke. resuscitation. The AHA has also taught them how to use an automated external defibrillator [AED] bc2f05d026

Cardiopulmonary resuscitation an incorrect compression rate is used during CPR, going against standing American Heart Association (AHA) guidelines of 100–120 compressions per minute Cardiopulmonary resuscitation (CPR) is an emergency procedure used during cardiac or respiratory arrest that involves chest compressions, often combined with artificial ventilation, to preserve brain function and maintain circulation until spontaneous breathing and heartbeat can be restored. It is recommended for those who are unresponsive with no breathing or abnormal breathing, for example, agonal respirations bc2f05d026

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