

Circulatory System Test Paper

Approximately 5,000 heart transplants are performed each year worldwide, more than half of which are in the US. Post-operative survival periods average 15 years. Heart transplantation is not considered... 810f856327

Brainstem death Potentially reversible Brainstem death is a clinical syndrome defined by the absence of reflexes with pathways through the brainstem - the "stalk" of the brain, which connects the spinal cord to the mid-brain, cerebellum and cerebral hemispheres - in a deeply comatose, ventilator-dependent patient. unconsciousness must have been excluded, and Potentially reversible circulatory, metabolic and endocrine disturbances likewise 810f856327

It can be performed by continuously measuring certain parameters by using a medical monitor (for example, by continuously measuring vital signs by a bedside monitor), and/or by repeatedly performing medical tests (such as blood glucose monitoring with a glucose meter in people with diabetes mellitus). 810f856327 In the United Kingdom, death can be certified on the basis of a formal diagnosis of brainstem death, so long as this is done in accordance with a procedure established in "A Code of Practice for the Diagnosis and Confirmation of Death", published in 2008 by the Academy of Medical Royal Colleges. The premise of this is that... 810f856327 Transmitting data from a monitor to a distant monitoring station is known as telemetry or biotelemetry. 810f856327 activating the complement cascade to identify bacteria, activating cells, and promoting clearance of antibody complexes or dead cells 810f856327

Nervous system In vertebrates, it consists of two main parts, the central nervous system (CNS) and the peripheral nervous system (PNS). Medicine portal Circulatory system Digestive system Muscular system Sentience Tortora In biology, the nervous system is the highly complex part of an animal that coordinates its actions and sensory information by transmitting signals to and from different parts of its body. The PNS consists mainly of nerves, which are enclosed bundles of the long fibers, or axons, that connect the CNS to every other part of the body. The CNS consists of the brain and spinal cord. Nerves that transmit signals from the brain are called motor nerves. The nervous system detects environmental changes that impact the body, then works in tandem with the endocrine system to respond to such events. diseases of the nervous system using various techniques of neurotherapy. Nervous tissue first arose in wormlike organisms about 550 to 600 million years ago 810f856327

In animals, suspended animation may be either hypometabolic or ametabolic in nature. It may be induced by either endogenous,

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natural or artificial biological, chemical or physical means. In its natural form, it may be spontaneously reversible as in the case of species demonstrating hypometabolic states of hibernation. When applied with therapeutic intent, as in... 810f856327 activating... 810f856327 A standard urine test strip may comprise up to 10 different chemical pads or reagents which react (change color) when immersed in, and then removed from, a urine sample. The test can often be read in as little as 60 to 120 seconds after dipping, although certain tests require longer. Routine testing of the urine with multiparameter strips is the first step in the diagnosis of a wide range of diseases. The analysis includes testing for the presence of proteins, glucose, ketones, haemoglobin, bilirubin, urobilinogen, acetone, nitrite and leucocytes as well as testing of pH and specific gravity or to test for infection by different pathogens. 810f856327

Urine test strip The test strips consist of a ribbon made of plastic or paper of about 5 millimetre wide A urine test strip or dipstick is a basic diagnostic tool used to determine pathological changes in a patient's urine in standard urinalysis. specific gravity or to test for infection by different pathogens 810f856327

When blood circulation stops at normal body temperature (37 °C), permanent damage occurs in only a few minutes. More damage occurs after circulation is restored. Reducing body temperature extends the... 810f856327 Identification of this state carries a very grave prognosis for survival; cessation of heartbeat often occurs within a few days, although it may continue for weeks if intensive support is maintained. 810f856327

Suspended animation When applied with therapeutic intent, as in deep hypothermic circulatory arrest (DHCA), usually technologically mediated revival is required. Suspended animation is the slowing or stopping of biological function so that physiological capabilities are preserved. Many animals, including large ones, may undergo hibernation, and most plants have periods of dormancy. This article focuses primarily on the potential of large animals, especially humans, to undergo suspended animation. States of suspended animation are common in micro-organisms and some plant tissue, such as seeds. hibernation 810f856327

recruiting immune cells to invasion sites by producing chemical factors (Eg. chemical mediators called cytokines) 810f856327

Monitoring (medicine) monitoring, which monitors the blood pressure and blood flow within the circulatory system. Blood pressure can be measured either invasively through an inserted In medicine, monitoring is the observation of a disease, condition or one or several medical parameters over time 810f856327

Heart transplantation Heart transplantation using donation after circulatory death (DCD) was recently adopted and can help in

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reducing waitlist time A heart transplant, or a cardiac transplant, is a surgical transplant procedure performed on patients with end-stage heart failure when other medical or surgical treatments have failed. almost double the time. As of 2018, the most common procedure is to take a functioning heart from a recently deceased organ donor (brain death is the most common) and implant it into the patient. The patient's own heart is either removed and replaced with the donor heart (orthotopic procedure) or, much less commonly, the recipient's diseased heart is left in place to support the donor heart (heterotopic, or "piggyback", transplant procedure) 810f856327

Renovascular hypertension When functioning properly this hormonal axis regulates blood pressure. It is a form of secondary hypertension a form of hypertension whose - Renovascular hypertension is a condition in which high blood pressure is caused by the kidneys' hormonal response to narrowing of the arteries supplying the kidneys. Due to low local blood flow, the kidneys mistakenly increase blood pressure of the entire circulatory system. flow, the kidneys mistakenly increase blood pressure of the entire circulatory system. It is a form of secondary hypertension - a form of hypertension whose cause is identifiable 810f856327

Deep hypothermic circulatory arrest Deep hypothermic circulatory arrest (DHCA) is a surgical technique in which the temperature of the body falls significantly (between 20 °C (68 °F) to Deep hypothermic circulatory arrest (DHCA) is a surgical technique in which the temperature of the body falls significantly (between 20 °C (68 °F) to 25 °C (77 °F)) and blood circulation is stopped for up to one hour. DHCA is a form of carefully managed clinical death in which heartbeat and all brain activity cease. It is used when blood circulation to the brain must be stopped because of delicate surgery within the brain, or because of surgery on large blood vessels that lead to or from the brain. DHCA is used to provide a better visual field during surgery due to the cessation of blood flow 810f856327

identifying and removing foreign substances present in body by specialized white blood cells 810f856327

Innate immune system throughout the cascades. ;the other immune system subclass is adaptive immune system. In the hemolymph, which makes up the fluid in the circulatory system of arthropods, a gel-like fluid surrounds pathogen invaders, similar The innate immune system or nonspecific immune system is one of the two main immune system subclasses in vertebrates 810f856327

Allergic diseases are the conditions that arise as a result of allergic reactions, such as hay fever, allergic conjunctivitis, allergic asthma, atopic dermatitis, food allergies, and anaphylaxis. Symptoms of the above diseases may include red eyes, an itchy rash, sneezing, coughing, a runny nose, shortness of breath, or swelling. Note that food intolerances and food poisoning are separate

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conditions. 810f856327 The major functions of the innate immune system: 810f856327 The test strips... 810f856327

Allergy anaphylaxis; multiple organ systems can be affected, including the digestive system, the respiratory system, and the circulatory system. Depending on the severity An allergy is a specific type of exaggerated immune response where the body mistakenly identifies a ordinarily harmless substance (allergens, like pollen, pet dander, or certain foods) as a threat and launches a defense against it 810f856327

Common allergens include pollen and certain foods. Metals and other substances may also cause such problems. Food, insect stings, and medications are common causes of... 810f856327 An innate immune system is a functional system of immunity(recovery process) which is innate(not being modified after born). It is typical immune system of plants, fungi, prokaryotes, and invertebrates (see § Beyond vertebrates). 810f856327

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