

Digestive System

Model Project

The network of blood vessels are the great vessels of the heart including large elastic arteries, and large veins; other arteries, smaller arterioles, capillaries that join with venules (small veins), and other veins. The circulatory system is closed in vertebrates, which means that the blood never leaves the network of blood vessels. Many invertebrates such as arthropods have an open circulatory system with a heart that pumps a hemolymph which returns via the body cavity rather than via blood vessels. Diploblasts such as sponges and comb jellies lack a circulatory system. 76a54a2c6c

Muscular system Together with the skeletal system in the human, it forms the musculoskeletal system, which is responsible for the movement of the body. The muscular systems in vertebrates are controlled through the nervous system although some muscles (such as the cardiac muscle) can be completely autonomous. It permits

movement of the body, maintains posture, and circulates blood throughout the body. maintaining proper blood flow and the movement of materials through the digestive system. Neuromuscular junctions are the focal point where a motor neuron attaches The muscular system is an organ system consisting of skeletal, smooth, and cardiac muscle 76a54a2c6c

Blood is a fluid consisting of plasma, red blood cells, white blood... 76a54a2c6c ==
Uses == 76a54a2c6c They are classified along with arthropods, tardigrades and other moulting animals in the clade Ecdysozoa. Unlike the flatworms, nematodes have a tubular digestive system, with openings at both ends. Like tardigrades, they have a reduced number of Hox genes, but their sister phylum Nematomorpha has kept the ancestral protostome Hox genotype, which shows that the reduction has occurred within the nematode phylum. 76a54a2c6c ==
Skeletal system == 76a54a2c6c

Model for End-Stage Liver Disease It was initially developed to predict mortality within three months of surgery in patients who had undergone a transjugular intrahepatic portosystemic shunt (TIPS) procedure, and

was subsequently found to be useful in determining prognosis and prioritizing for receipt of a liver transplant. This score is now used by the United Network for Organ Sharing (UNOS) and Eurotransplant for prioritizing allocation of liver transplants instead of the older Child-Pugh score. It was initially developed to The Model for End-Stage Liver Disease, or MELD, is a scoring system for assessing the severity of chronic liver disease. The Model for End-Stage Liver Disease, or MELD, is a scoring system for assessing the severity of chronic liver disease 76a54a2c6c

MRCP has been slowly replacing endoscopic retrograde cholangiopancreatography (ERCP) as investigation of choice. MRCP is highly accurate in diagnosing the biliary system, pancreatic duct and accessing surrounding solid organs. Several advantages offered by MRCP is its non-invasive nature, less costly, requires less examination time when compared to ERCP (30 minutes), fewer staff required, and does not require any ionising radiation. 76a54a2c6c

Nervous system In vertebrates, it consists of two main parts, the central nervous system (CNS) and the peripheral nervous system

(PNS). Nervous tissue first arose in wormlike organisms about 550 to 600 million years ago. The sympathetic nervous system is activated in cases of emergencies to mobilize. The PNS consists mainly of nerves, which are enclosed bundles of long fibers, or axons, that connect the CNS to every other part of the body. The PNS is divided into two separate subsystems, the somatic and autonomic nervous systems. The CNS consists of the brain and spinal cord. diseases of the nervous system using various techniques of neurotherapy. The autonomic nervous system is further subdivided into the sympathetic, parasympathetic and enteric nervous systems. 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 nervous system detects environmental changes that impact the body, then works in tandem with the endocrine system to respond to such events. Nerves that transmit signals from the brain are called motor nerves (efferent), while those nerves that transmit information from the body to the CNS are called sensory nerves (afferent)

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Nematode species can be difficult to distinguish from one another. Consequently, estimates of the number of nematode species are uncertain. A 2013 survey of animal biodiversity suggested there are over 25,000. Estimates of the total number of extant species are subject to even greater variation. A widely referenced 1993 article estimated there might be over a million species of nematode. A subsequent publication challenged this... 76a54a2c6c

Circulatory system The digestive system also works with the circulatory system to provide the nutrients the system needs to keep the heart pumping. In vertebrates, the circulatory system is a system of organs that includes the heart, blood vessels, and blood which is circulated throughout the body. The circulatory system has two divisions, a systemic circulation or circuit, and a pulmonary circulation or circuit. blood cells, and platelets. It includes the cardiovascular system, or vascular system, that consists of the heart and blood vessels (from Greek kardia meaning heart, and Latin vascula meaning vessels). Some sources use the terms cardiovascular system and vascular

system interchangeably with circulatory
system 76a54a2c6c

== Background == 76a54a2c6c MRCP is used to diagnose gallstones. It can also diagnose choledochal cysts very reliably. Besides providing information regarding the biliary system, MRCP also provides information regarding surrounding solid organs and blood vessels, thus useful for planning the resection of pancreatic cancer and look for complications of primary sclerosing cholangitis such as liver cirrhosis and cholangiocarcinoma. 76a54a2c6c

Netherlands Organisation for Applied Scientific Research TIM: TNO Intestinal Models, a system of models to mimic the digestive tract. Other locations The Netherlands Organisation for Applied Scientific Research (Dutch: Nederlandse Organisatie voor Toegepast Natuurwetenschappelijk Onderzoek, abbreviated TNO, "Dutch Organisation for Applied Scientific Research") is an independent statutory research organisation in the Netherlands that focuses on applied science. It conducts contract research, offers specialist consulting services, and grants licences for patents and specialist software.

after being considered a failure. TNO founds new companies to market innovations. TNO is headquartered in The Hague 76a54a2c6c

Nematode Like tardigrades, they have a reduced The nematodes (NEM-ə-tohdz, NEE-mə-), roundworms or eelworms constitute the phylum Nematoda (Ancient Greek: Νηματώδη; Latin: Nematoda). Unlike the flatworms, nematodes have a tubular digestive system, with openings at both ends. the clade Ecdysozoa. Parasitic worms (helminths) are the cause of soil-transmitted helminthiasis. Most species are free-living, feeding on microorganisms, but many are parasitic. Species in the phylum inhabit a broad range of environments 76a54a2c6c

Model organism The protist T. This strategy is made possible by the common descent of all living organisms, and the conservation of metabolic and developmental pathways and genetic material over the course of evolution. The mouse (*Mus musculus*) has been used extensively as a model organism and A model organism is a non-human species that is extensively studied to understand particular biological phenomena, with the expectation that discoveries made in the model organism will provide insight

into the workings of other organisms. the human digestive system. brucei has become a model organism. Model organisms are widely used to research human disease when human experimentation would be unfeasible or unethical 76a54a2c6c

Power Reactor and Nuclear Fuel Development Corporation The organization specialized in special breeder reactors and the Advanced Thermal Reactor. However, when inhaled, finely powdered plutonium

The Power Reactor and Nuclear Fuel Development Corporation (PNC) (原子力発電開発機構, Dōryokuro Kakunenryō Kaihatsu Jigyōdan) or 原研 (Dōnen) for short, was a Japanese nuclear energy research organization established 2 October 1967 with the Atomic Fuel Corporation as its parent organization and disbanded in 1998 to be restructured as the Japan Nuclear Cycle Development Institute. It also owned a nuclear reprocessing facility and its activities included uranium exploration in Australia and disposal of high-level waste. digestion in acid; if swallowed, it is likely to pass through the digestive system and leave in the stool 76a54a2c6c

In the fast-growing 1960s Japanese business

world, domestic reactor technology was mostly undeveloped, so importing reactor designs and nuclear fuel proved to be the best economic option. Uranium enrichment technology at the time also had military secrets associated with it, making importing a necessity. Since Japan had very few hydraulic energy resources, breeder reactors and renewable energy were attractive technologies. However, the organization existing at the time to do such research, the Japan Atomic Energy Research Institute had been falling into an unstable situation...

Determination ==
Outline ==

MELD uses the patient's values for serum bilirubin, serum creatinine, and the international normalized ratio for prothrombin time (INR) to predict survival. It is calculated according to the following formula:

Magnetic resonance cholangiopancreatography It uses magnetic resonance imaging to visualize the biliary and pancreatic ducts non-invasively. This procedure can be used to determine whether gallstones are lodged in any of the ducts surrounding the gallbladder.

doi:10. PMID 18956595 Magnetic resonance cholangiopancreatography (MRCP) is a medical imaging technique. Journal of Digestive Diseases. 2008. evaluation of biliary pathologies: review of current literature". 1111/j. 1751-2980. 00339 76a54a2c6c

Research using animal models has been central to most of the achievements of modern medicine. It has contributed most of the basic knowledge in fields such as human physiology and biochemistry, and has played significant roles in fields such as neuroscience and infectious disease. The results have included the near-eradication of polio and the development of organ transplantation, and have benefited both humans and animals. From 1910 to 1927, Thomas Hunt Morgan's work with the fruit fly *Drosophila melanogaster* identified chromosomes as the vector of inheritance for genes, and Eric Kandel wrote that Morgan's discoveries "helped transform biology... 76a54a2c6c TNO was established by law in 1932 to support companies and governments. TNO also held a 10% stake in the Austrian research centre Joanneum Research from 2004 to 2014. 76a54a2c6c

Bird anatomy development of a beak has led to evolution of a specially adapted digestive system. Birds have a light skeletal system and light but powerful musculature which, along with circulatory and respiratory systems capable of very high metabolic rates and oxygen supply, permit the bird to fly.

Birds have many bones that are hollow (pneumatized) with criss-crossing Bird anatomy, or the physiological structure of birds' bodies, shows many unique adaptations, mostly aiding flight. The development of a beak has led to evolution of a specially adapted digestive system

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