

The Structure Of A Heart

== History == Congenital heart defects are the most common birth defect. In 2015, they were present in 48.9 million people globally. They affect between 4 and 75 per 1,000 live births, depending upon how they are diagnosed. In about 6 to 19 per 1,000 they cause a moderate to severe degree of problems. Congenital heart defects are the leading cause of birth defect...

Heart of Midlothian Heart of Midlothian may refer to: Old Tolbooth, Edinburgh, a structure known as the "Heart of Midlothian"; Heart of Midlothian (Royal Mile), a mosaic heart Heart of Midlothian may refer to:

Branchial heart They pump blood through the gills via the afferent branchial veins. Since they only circulate venous blood, branchial hearts function under predominantly anaerobic conditions. Branchial hearts also appear to be involved in hemocyanin synthesis. They are myogenic in nature. Branchial hearts are accessory pumps that supplement the action of the systemic heart in a cephalopod's body. They are myogenic in nature. Branchial hearts are always in pairs located at the base of the gills. Each branchial heart consists of a single chamber. Branchial hearts are Branchial hearts are accessory pumps that supplement the action of the systemic heart in a cephalopod's body

Heart failure is one of the leading causes of death. In 2013, an estimate of 17.3 million deaths per year out of the 54 million total deaths was caused by cardiovascular diseases, meaning that 31.5% of the world's total death was caused by this. Often, the only viable treatment for end-stage heart failure is organ transplantation. Currently organ supply is insufficient to meet the demand, which presents a large limitation in an end-stage treatment plan. A theoretical alternative to traditional transplantation processes is the engineering of personalized bioartificial hearts. Researchers have had many successful...

Tubular heart the third week. The term tubular heart has two definitions, one for developmental biology, and one for evolutionary biology. In evolutionary biology, the term refers to a peristaltic heart tube that evolved in early Bilateria, which consists of a single layer of contracting mesoderm but lacks chambers, valves, and blood vessels. In the cardiogenic region of the embryo, paired endocardial tubes fuse to form a single linear structure known as the tubular heart

Heart of Midlothian (Royal Mile), a mosaic heart in the pavement of Edinburgh's Royal Mile at the former site of the Old Tolbooth

0a71eeb14a == Embryonic origin == 0a71eeb14a

Heart valve Together, the valves determine the direction of blood flow through the heart. See media help. Problems playing this file. Sound of the heart valves closing in a healthy 16 year old girl. A mammalian heart usually has four valves. The stethoscope is at the tricuspid area. Heart valves are opened or closed by a difference in blood pressure on each side. A heart A heart valve (cardiac valve) is a biological one-way valve that allows blood to flow in one direction through the chambers of the heart 0a71eeb14a

Major local names for heart of palm include: 0a71eeb14a == Background == 0a71eeb14a == Names == 0a71eeb14a == Structure == 0a71eeb14a == References == 0a71eeb14a The motto of the Missionaries of the Sacred Heart is: May the Sacred Heart of Jesus be loved everywhere! The priests, deacons and brothers of the Missionaries of the Sacred Heart are known as MSCs (from the Latin, Missionarii Sacratissimi Cordis). The international headquarters is in Rome with numerous communities throughout the world. 0a71eeb14a Although symptoms vary based on which side of the heart is affected, HF typically presents with shortness of breath, excessive fatigue, and bilateral leg swelling. The severity of the heart failure is mainly decided based on ejection fraction and also measured by the severity of symptoms. Other conditions that have symptoms similar to heart failure include obesity, kidney failure, liver disease, anemia, and thyroid disease. 0a71eeb14a In developmental biology, the tubular heart or primitive heart tube is the earliest stage of heart development in vertebrates. The heart is the first functional organ to form during human embryogenesis, beginning in the third week. In the cardiogenic region of the embryo, paired endocardial tubes fuse to form a single linear structure known as the tubular heart. This tube later undergoes looping and separation to form the multi-chambered heart. 0a71eeb14a

Bioartificial heart Such hearts are of particular interest for therapy as well as research into heart disease. A bioartificial heart is an engineered heart that contains the extracellular structure of a decellularized heart and cellular components from a different A bioartificial heart is an engineered heart that contains the extracellular structure of a decellularized heart and cellular components from a different source. In 2014, human-sized bioartificial pig hearts were constructed. Bioartificial hearts have not been developed yet for clinical use, although the recellularization of porcine hearts with human cells opens the door to xenotransplantation. The first bioartificial hearts were created in 2008 using cadaveric rat hearts 0a71eeb14a

Heart The heart is a muscular organ found in humans and other animals. The heart and blood vessels together The heart is a muscular organ found in humans and other animals. This organ pumps blood through the blood vessels. In humans, the heart is approximately the size of a closed fist and is located between the lungs, in the middle compartment of the chest, called the mediastinum. This organ pumps blood through the blood vessels. The heart and blood vessels together make up the circulatory

system. The pumped blood carries oxygen and nutrients to the tissue, while carrying metabolic waste such as carbon dioxide to the lungs 0a71eeb14a

The Heart of Midlothian (film), a 1914 British silent film adaptation of Scott's novel 0a71eeb14a Old Tolbooth, Edinburgh, a structure known as the "Heart of Midlothian" 0a71eeb14a Common causes of heart failure include coronary artery disease, heart attack, high blood pressure, atrial fibrillation, valvular heart disease, excessive alcohol consumption, infection, and cardiomyopathy. These cause heart failure by altering the structure or the function of the heart or in some cases both. There are different types of heart failure: right-sided heart failure, which affects the right heart, left-sided heart failure, which affects the left heart, and biventricular heart failure, which affects both sides of the heart. Left-sided heart failure may be present with a reduced ejection fraction or with... 0a71eeb14a Heart of Midlothian F.C. Under-20s and Academy, an associated youth team and system 0a71eeb14a Heart of Midlothian W.F.C., an associated women's football club 0a71eeb14a The heart pumps blood with a rhythm determined by a group of pacemaker cells in the sinoatrial node. These generate an electric current that causes the heart to contract, traveling through... 0a71eeb14a In humans, the heart is divided into four chambers: upper left and right atria and lower left and right ventricles. Commonly, the right atrium and ventricle are referred together as the right heart and their left counterparts as the left heart. In a healthy heart, blood flows one way through the heart due to heart valves, which prevent backflow. The heart is enclosed in a protective sac, the pericardium, which also contains a small amount of fluid. The wall of the heart is made up of three layers: epicardium, myocardium, and endocardium. 0a71eeb14a

Heart of palm Heart of palm may be eaten on its own, and often it is eaten in a salad. Hearts of palm are traditionally harvested in the cultures of Southeast Asia and in South and Central America. Heart of palm is a vegetable harvested from the inner core and growing bud of certain palm trees, most notably the coconut (*Cocos nucifera*), juçara (*Euterpe* Heart of palm is a vegetable harvested from the inner core and growing bud of certain palm trees, most notably the coconut (*Cocos nucifera*), juçara (*Euterpe edulis*), açai palm (*Euterpe oleracea*), palmetto (*Sabal* spp.), and peach palm 0a71eeb14a

A Woman's Triumph, a 1914 American silent film adaptation of Scott's novel 0a71eeb14a Heart of Midlothian F.C., an Edinburgh association football club 0a71eeb14a

Missionaries of the Sacred Heart The Missionaries of the Sacred Heart of Jesus (MSC; Latin: *Missionarii Sacratissimi Cordis*; French: *Missionnaires du Sacré-Coeur*) are a missionary congregation The Missionaries of the Sacred Heart of Jesus (MSC; Latin: *Missionarii Sacratissimi Cordis*; French: *Missionnaires du Sacré-Coeur*) are a missionary congregation in the Catholic Church. It was founded in 1854 by Jules Chevalier at Issoudun, France, in the Diocese of Bourges 0a71eeb14a

Heart failure There are different types of heart failure: right-sided Heart failure (HF), also known as congestive heart failure (CHF), is a syndrome caused by an impairment in the heart's ability to fill with and pump blood. These cause heart failure by altering the structure or the function of the heart or in some cases both 0a71eeb14a

Each branchial heart is directly connected to a branchial heart appendage or pericardial gland. The action of the branchial hearts is necessary for the production of primary urine in these appendages via pressure filtration. Branchial hearts may have evolved from the pericardial glands of nautiloids, such as those still found in modern nautiluses. 0a71eeb14a The Heart of Midlothian, an 1818 novel by Sir Walter Scott, the title referring to the Old Tolbooth 0a71eeb14a The heart also has a coronary sinus valve and an inferior vena cava valve, not discussed here. 0a71eeb14a

Congenital heart defect A congenital heart defect is classed as a cardiovascular disease A congenital heart defect (CHD), also known as a congenital heart anomaly, congenital cardiovascular malformation, and congenital heart disease, is a defect in the structure of the heart or great vessels that is present at birth. Signs and symptoms depend on the specific type of defect. Symptoms can vary from none to life-threatening. A complication of CHD is heart failure. Due to recent advances in the management of patients with CHD, an increased number of patients may develop heart failure and might even require heart transplantation in future. Most congenital heart defects are not associated with other diseases. When present, symptoms are variable and may include rapid breathing, bluish skin (cyanosis), poor weight gain, and feeling tired. A congenital heart defect is classed as a cardiovascular disease. CHD does not cause chest pain. disease, is a defect in the structure of the heart or great vessels that is present at birth 0a71eeb14a

The mammalian heart has two atrioventricular valves separating the upper atria from the lower ventricles: the mitral valve in the left heart, and the tricuspid valve in the right heart. The two semilunar valves are at the entrance of the arteries leaving the heart. These are the aortic valve at the aorta, and the pulmonary valve at the pulmonary artery. 0a71eeb14a During gastrulation (day 14-21 of development), the human embryo is organized into three germ layers: ectoderm, mesoderm, and endoderm. The tubular heart forms primarily from splanchnic mesoderm of the lateral plate mesoderm around day 18. Signals from the adjacent endoderm induce mesodermal cells, known as blood islands, to differentiate into angioblasts. Through vasculogenesis at day 20, angioblasts organize... 0a71eeb14a

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