

Difference Between Heart Attack And Heart Failure

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... e5073f50a0

Hypertensive heart disease While there are several definitions of hypertensive heart disease in the medical literature, the term is most widely used in the context of the International Classification of Diseases (ICD) coding categories. definition includes heart failure and other cardiac complications of hypertension when a causal relationship between the heart disease and hypertension is Hypertensive heart disease includes a number of complications of high blood pressure that affect the heart. 07 million deaths as compared with 630,000 deaths in 1990. In 2013 hypertensive heart disease resulted in 1. The definition includes heart failure and other cardiac complications of hypertension when a causal relationship between the heart disease and hypertension is stated or implied on the death certificate e5073f50a0

The American Heart Association states the normal resting adult human heart rate is 60–100 bpm. An ultra-trained athlete may have a resting heart rate of 37–38 bpm. e5073f50a0

Heart block Sometimes this disorder is inherited. This is caused by an obstruction – a block – in the electrical conduction system of the heart. Despite the severe-sounding name, heart block may cause no symptoms at all, or mere occasional missed heartbeats and ensuing light-headedness, syncope (fainting), and palpitations. (and which relate to the heart and/or other nearby organs), such as angina (heart-related chest pain), heart attack (myocardial infarction), any heart Heart block (HB) is a disorder in the heart's rhythm due to a fault in the natural pacemaker. Depending upon where in the heart, exactly, conduction is impaired (and how significantly), the disorder may require the implantation of an artificial pacemaker (a medical device that provides correct electrical impulses to trigger heartbeats, compensating for the natural pacemaker's unreliability); heart block is usually treatable e5073f50a0

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. e5073f50a0 Tachycardia is a high heart rate, defined as above 100 bpm at rest. e5073f50a0 According to ICD-10, hypertensive heart disease (I11), and its subcategories: hypertensive heart disease with heart failure (I11.0) and hypertensive heart disease without heart failure (I11.9) are distinguished from chronic rheumatic heart diseases (I05-I09), other forms of heart disease (I30-I52) and ischemic heart diseases (I20-I25). However, since high blood pressure is a risk factor for atherosclerosis and ischemic heart disease, death rates from hypertensive heart disease provide an incomplete measure of the burden of disease due to high blood pressure. e5073f50a0 The club's most successful period was under... e5073f50a0

Heart failure 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 e5073f50a0

== Acute heart failure == e5073f50a0 Hearts have played home matches at Tynecastle Park since 1886. After the ground was converted into an all-seater stadium in 1990, it now has a capacity of 19,852 following the completion of a rebuilt main stand in 2017. They have training facilities at the Oriam, Scotland's national performance centre for sport, where they also run their youth academy. e5073f50a0 == Signs... == e5073f50a0 Heart failure or cardiovascular insufficiency can be acute without being decompensated from a chronic condition. In this case, the signs of congestion such as weight gain and edema will not yet have developed. This is commonly due to pump failure or cardiovascular insufficiency after myocardial infarction when a significant loss of cardiac function occurs. Such patients will, have shortness of breath due to poor tissue perfusion, tissue hypoxia and metabolic acidosis. e5073f50a0

Acute decompensated heart failure ADHF is a common and potentially serious cause of acute respiratory distress. An attack of decompensation can be caused by an underlying medical condition, such as myocardial infarction, an abnormal heart rhythm, infection, or thyroid disease. The condition is caused by severe congestion of multiple organs by fluid that is inadequately circulated by the failing heart. Acute decompensated heart failure (ADHF) is a sudden worsening of the signs and symptoms of heart failure, which typically includes difficulty breathing Acute decompensated heart failure (ADHF) is a sudden worsening of the signs and symptoms of heart failure, which typically includes difficulty breathing (dyspnea), leg or feet swelling, and fatigue e5073f50a0

Framingham Heart Study Prior to the study almost nothing was known about the epidemiology of hypertensive or arteriosclerotic cardiovascular disease. choice was between Framingham, Massachusetts, and Paintsville, Kentucky. Much of the now-common knowledge concerning heart disease, such as the effects of diet, exercise, and common medications such as aspirin, is based on this longitudinal study. It is a project of the National Heart, Lung, and Blood Institute, in collaboration with (since 1971) Boston University. Various health professionals from the hospitals and universities of Greater Boston staff the project. The study began in 1948 with 5,209 adult subjects from Framingham, and is now on its third generation of participants. Framingham was chosen when residents showed more general interest in heart research The Framingham Heart Study is a long-term, ongoing cardiovascular cohort study of residents of the city of Framingham, Massachusetts e5073f50a0

Bradycardia is a low heart rate, defined as below 60 bpm at rest. When a human sleeps, a heartbeat with rates around 40–50 bpm is common and considered normal. When the heart is not beating in a regular pattern, this is referred to as a arrhythmia. Abnormalities of heart rate sometimes indicate heart disease. e5073f50a0

Myocardial infarction This is the dangerous type of acute coronary syndrome. as a heart attack, occurs when blood flow decreases or stops in one of the arteries of the heart, causing infarction (tissue death) to the heart muscle A myocardial infarction (MI), commonly known as a heart attack, occurs when blood flow decreases or stops in one of the arteries of the heart, causing infarction (tissue death) to the heart muscle. The pain may occasionally feel like heartburn. The most common symptom is retrosternal chest pain or discomfort that classically radiates to the left shoulder, arm, or jaw e5073f50a0

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. e5073f50a0 Heart block should not be confused with other conditions which may or may not be co-occurring or possibly serious (and which relate to the heart and/or other nearby organs), such as angina (heart-related chest pain), heart attack (myocardial infarction), any heart failure, cardiogenic shock or other types of shock, different types of abnormal heart rhythms (arrhythmias), cardiac arrest, or respiratory arrest. e5073f50a0 Hearts have won the Scottish league championship four times, most recently in 1959–60, when they also retained the Scottish League Cup to complete a League and League Cup double – the only club outside of the Old Firm to achieve such a feat. e5073f50a0

Artificial heart valve The three main An artificial heart valve is a one-way valve implanted into a person's heart to replace a heart valve that is not functioning properly (valvular heart disease). Artificial heart valves can be separated into three broad classes: mechanical heart valves, bioprosthetic tissue valves and engineered tissue valves. High blood pressure and heart failure which can enlarge the heart and arteries, and scar tissue can form after a heart attack or injury e5073f50a0

Heart of Midlothian F.C. Hearts, the oldest football club in the Scottish capital, was formed in 1874, its name influenced by Walter Scott's novel *The Heart of Midlothian* (1818). The club crest is based on the Heart of Midlothian mosaic on the city's Royal Mile; the team's colours are maroon and white. Hearts have won the Heart of Midlothian Football Club, commonly known as Hearts, is a professional football club in Edinburgh, Scotland. campaign (132) and also became the only side to finish a season in the Scottish top tier with a goal difference exceeding 100 (+103). The team competes in the Scottish Premiership, the top division of Scottish football. Their local rivals are Hibernian, with whom they contest the Edinburgh derby e5073f50a0

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... e5073f50a0

Heart rate It is usually equal or close to the pulse rate measured at any peripheral point. It is also modulated by numerous factors, including genetics, physical fitness, stress or psychological status, diet, drugs, hormonal status, environment, and disease/illness, as well as the interaction between these factors. Heart rate reserve (HRreserve) is the difference between a person's measured or predicted maximum heart rate and resting heart rate, HRmax Heart rate is the frequency of the heartbeat measured by the number of contractions of the heart per minute (beats per minute or bpm). The heart rate varies according to the body's physical needs, including the need to absorb oxygen and excrete carbon dioxide. accurate as ± 2 bpm e5073f50a0

== Physiology == e5073f50a0 United States Congress, with multiple communities being considered for study. The final choice was between Framingham, Massachusetts, and Paintsville, Kentucky. Framingham was chosen when residents showed more general interest in heart research than Paintsville. Thomas Royle Dawber was director of the study from 1949 to 1966. He was appointed as chief epidemiologist... e5073f50a0 Most MIs occur due to coronary artery disease. Risk factors include high blood pressure, smoking, diabetes, lack of exercise, obesity, high blood cholesterol, poor diet, and excessive alcohol intake. The complete blockage of a coronary artery caused by

a rupture of an atherosclerotic plaque is usually the underlying mechanism of an MI. MIs are less commonly... e5073f50a0 == History == e5073f50a0 The human heart uses electrical signals to maintain... e5073f50a0 In 1948, the study was commissioned by the e5073f50a0

Heart This organ pumps blood through the blood vessels. The pumped blood carries oxygen and nutrients to the tissue, while carrying metabolic waste such as carbon dioxide to the lungs. The heart and blood vessels together make up the circulatory system. In humans, the heart is divided into The heart is a muscular organ found in humans and other animals. 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. of a closed fist and is located between the lungs, in the middle compartment of the chest, called the mediastinum e5073f50a0

== Background == e5073f50a0 Other symptoms may include shortness of breath, nausea, feeling faint, a cold sweat, feeling tired, and decreased level of consciousness. Women more often present without chest pain and instead have neck pain, arm pain or feel tired. Among those over 70-75 years old, about 5% have had an MI with little or no history of symptoms. An MI may cause heart failure, an irregular heartbeat, cardiogenic shock or cardiac arrest. e5073f50a0 The human heart contains four valves: tricuspid valve, pulmonary valve, mitral valve and aortic valve. Their main purpose is to keep blood flowing in the proper direction through the heart, and from the heart into the major blood vessels connected to it (the pulmonary artery and the aorta). Heart valves can malfunction for a variety of reasons, which can impede the flow of blood through the valve (stenosis) and/or let blood flow backwards through the valve (regurgitation). Both processes put strain on the heart and may lead to serious problems, including heart failure. While some dysfunctional valves can be treated with drugs or repaired, others need to be replaced with an artificial valve. e5073f50a0

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